User's Manual

Smart Media Player
TIZZBIRD™ F30

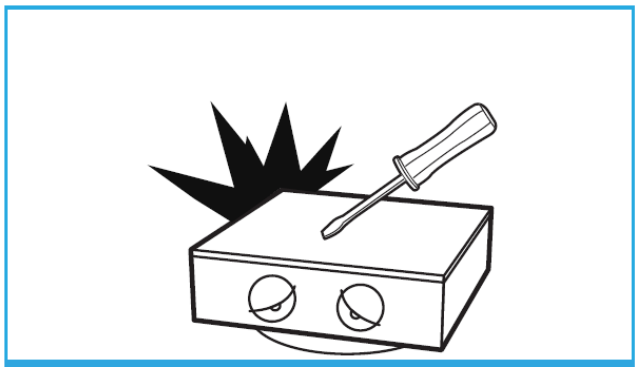
Rev 1.2x

Table of Contents

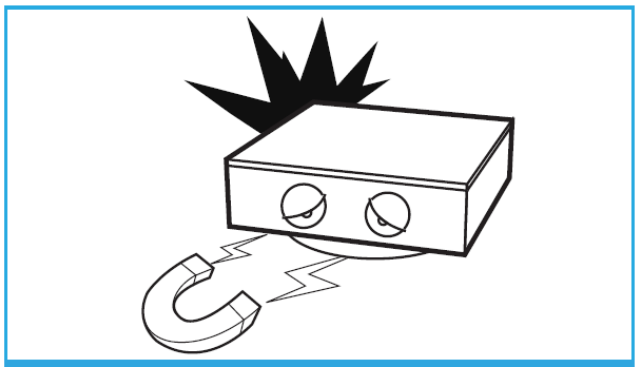
1. **Safety Notice** 4
2. **Features** 5
3. **Specifications** 6
4. **Description of Each Part** 7
5. **Package Contents** 8
6. **Installation and Connection** 9
7. **Using Remote Controller** 14
8. **Initial Screen** 15
   - 8.1 **Turning On Power** 15
   - 8.2 **Setting TV Output** 15
   - 8.3 **Setting Menu Language** 16
   - 8.4 **Screen Alignment** 17
   - 8.5 **Audio & Visual Settings** 18
   - 8.6 **Network Settings** 20
   - 8.6.1 **Configure Wi-Fi Connection** 20
   - 8.6.2 **Configure Ethernet Connection** 22
   - 8.6.3 **Configure Manual-IP Ethernet** 22
   - 8.7 **Turning Power Off, Completely Power Off** 23
9. **Start-Up and Terminate** 25
   - 9.1 **Home Screen** 25
   - 9.2 **Status Bar and Weather Widget** 26
   - 9.3 **Change Cover-View Style** 27
   - 9.4 **Movie Browser** 28
   - 9.5 **Terminate** 28
10. **Watching Movie** 29
    - 10.1 **Movie Browser** 29
    - 10.2 **Selecting Device and View** 30
    - 10.3 **Movie Browser Menu** 31
    - 10.4 **To Add Movie Poster** 32
    - 10.5 **Resume and Bookmark** 34
    - 10.6 **Movie Playback Menu** 35
    - 10.7 **Playback Speed Control** 36
    - 10.8 **Searching Menu (Time, Chapter, Bookmark)** 36
    - 10.9 **Playback Information Menu** 37
    - 10.10 **Subtitle Menu** 37
    - 10.11 **Audio Menu** 37
    - 10.12 **Video Parameter Menu** 38
    - 10.13 **Playback 3D Format Movies** 38
    - 10.14 **Skip Playback Position** 38
11. **Listening Music** 39
    - 11.1 **Music Browser** 39
    - 11.2 **Sorting Music** 40
    - 11.3 **Music Playback Screen** 40
    - 11.4 **Music Playback Menu** 40
12. **Watching Photo** 41
    - 12.1 **Photo Browser** 41
    - 12.2 **Photo Browsing Menu** 41
    - 12.3 **Photo Wall & Photo Stack** 41
    - 12.4 **Photo Playback Screen** 42
    - 12.5 **Slideshow Control** 42
13. **Using File Browser** 43

13.1 File Browser Screen 43
13.2 Selecting Device at File Browser 44
13.3 Register Subtitle Font File 44
13.4 Using File Operation 45
14. Connecting Internet 47
14.1 Execute Internet Browser 47
14.2 Control Internet Browser 47
15. Install & Execute Applications 48
15.1 Move Applications at Android Phone to TizzBird 48
15.2 Execute Application 49
16. Settings 50
16.1 System 50
16.2 Audio and Visual 53
16.3 Movie 55
16.4 Music 56
16.5 Photo 57
16.6 Network 57
16.7 Cover-View 58
17. Connecting Network Server or NAS 59
17.1 Network connection using NFS 59
17.1.1 Downloading TizzNFS Server 59
17.1.2 Executing TizzNFS Server & Configuration 59
17.1.3 Downloading other NFS Server 60
17.1.4 Executing freeNFS Server & Configuration 60
17.1.5 Connecting NFS Server at Device 61
17.2 Network Connection using Samba 63
17.2.1 Activating PC Share 63
17.2.2 Connecting Samba Server at Device 63
17.3 Accessing Network Drive at File/ Media Browser 65
18. Firmware Upgrade 66
18.1 Online Upgrade (O.T.A – Over The Air Upgrade) 66
18.2 Local Upgrade 66
18.2.1 Upgrade at Settings Screen 66
18.2.2 Upgrade at File Browser 67

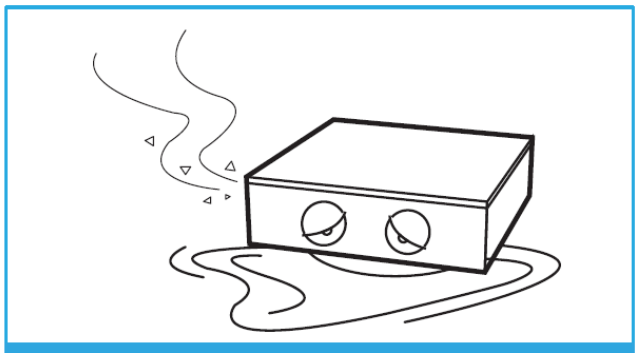
1. Safety Notice



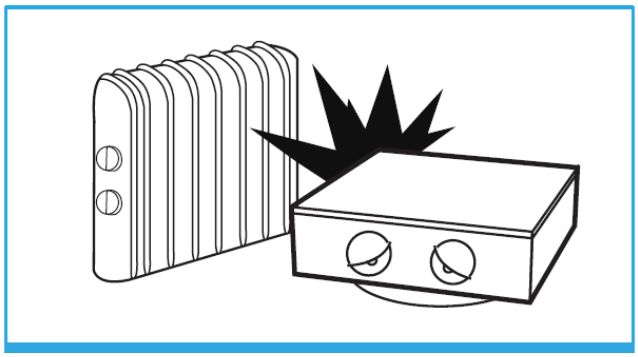
Do not try to disassemble the unit. It may cause malfunction or fire.



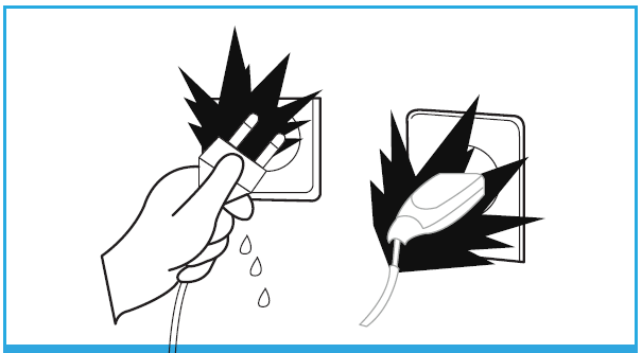
Keep away the unit from magnetized devices. It may erase the data stored in the HDD drive inside.



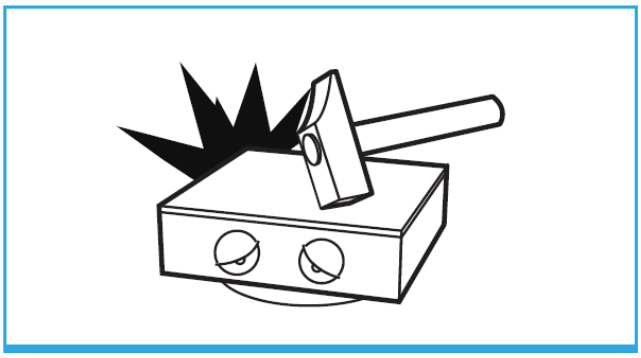
Do not place the unit in places that are exposed to oil, water, dust, humidity, rain or wind.



Keep away the unit from overheated areas, such as heaters. Place it well ventilated location. Ensure that a free airflow is maintained around the unit.



Do not touch the power plug with wet hands or use defective power cables and electric outlets. It may cause electric shocks or fire.



Do not drop or shock the unit from heights. Doing so may cause serious damage to the HDD inside.

Please install the unit nearby the socket-outlet and easily accessible place. Unplug the power cable when the device is not used for a long time.

2. Features

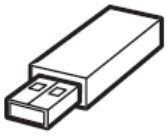
Tizzbird playbacks various full HD movie contents including HDMV and DVD backup formats as well as AVI, MKV, XVID and TS formats on TV. It supports most recent video formats such as H264 and VC-1.

TizzBird provides a full web-browsing capability very similar like PC. Mouse and keyboard can be attached to support various inputs, which enable slick Internet surfing even on the big screen TV.

TizzBird playbacks high resolution photo images on TV. It can slideshow the photos while playing back the music in background. Transition effects such as fade-in-out or zooming can be applied during transition of each photo.

TizzBird playbacks high quality lossless music such as FLAC, WAV up to 24bit/ 96Khz. It also supports compressed MP3, OGG, AAC and CUE format thru high fidelity Wolfson DAC.

TizzBird runs applications on TV exact same APPs installed on the Android Smartphone without any conversion. This also includes 3D games or 3D APPs that utilize the superb OPEN-GL 3D accelerator. Some APPs that fixed screen-aspect ratio cannot be applicable in some cases.



It also supports gigabit Ethernet which enables fastest networking ever before. TizzBird supports NFS, SAMBA, uPnP network protocols to connect various servers. It also has multiple mounting drive options and automatic browsing capability which maximize the network connection experience.

TizzBird can be used as an external USB 3.0 storage thru connecting PC. TizzBird also supports playback the contents at USB flash drive or external HDD thru connecting USB host ports.

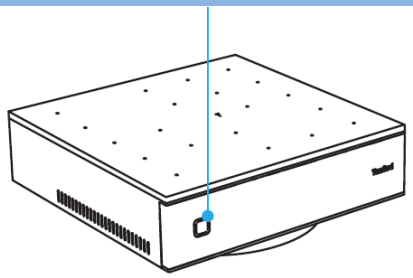
3. Specifications

Model	TizzBird F30
System	TCC9302 1Ghz CPU/ 512M Memory/ 2GB NAND flash Booting time from stand-by is less than two seconds.
OS	Android Rev 2.3 Gingerbread
Video	Format: AVI/ MKV/ MPG/ WMV/ VOB/ TP/ TRP/ M2TS/ MOV/ FLV/ IFO/ ISO/ HDMV
	Codec: MPEG 1/2/4, H264, XVID, WMV9(MP@HL4.1) VC-1(AP@L3)
	Resolution: Max 1080p 60Hz
Audio	MP3/ OGG/ WAV/ AAC/ FLAC/ APE/ WMA
	Dolby Digital / DTS Down Mixing and Pass-thru
Image	JPG, JPEG, BMP, PNG, GIF, TIF
Connection	USB 2.0 Host Port 3 EA (Current → Max 500mA / Port)
	USB 3.0 Device Port 1EA (Max Transfer Rate 5Gbps)
	Gigabit Ethernet, Wireless Wi-Fi 802.11n (Optional)
	Network Protocol : Samba (CIFS)/ NFS/ uPnP
Video Output	HDMI 1.3a / Component(YPbPr)/ Composite
Audio Output	Digital: Coaxial and Optical Output / Analogue: Stereo RCA Output
File System	NTFS, FAT32
Subtitle	smi, smil, sub, sub/idx, srt, ssa, ass
Power	DC 12V / 3A Adapter, Standby power consumption < 0.4w
Languages	English, French, German, Spanish, Italian, Portuguese, Vietnamese, Swedish, Czech,Norwegian, Danish, Japanese, Korean, Traditonal Chinese
Dimension	215 x 215 x 59 mm

4. Description of Each Part

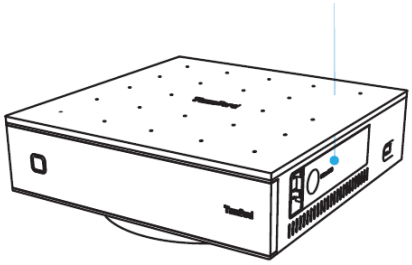
Power Button

Turn ON/OFF power of the unit.



Smart HDD Rack

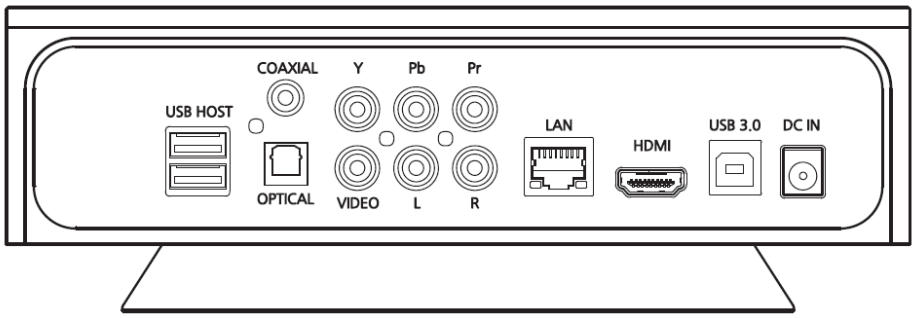
Install/ uninstall the HDD easily with this RACK



Connectors

Please connect the unit to AV port of the TV or AV receiver. Please connect Ethernet cable or install the Wi-Fi USB dongle for connecting the network.

**** There's another USB host port at the side.****

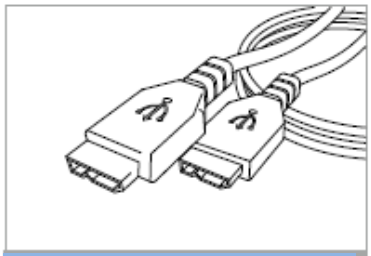


5. Package Contents

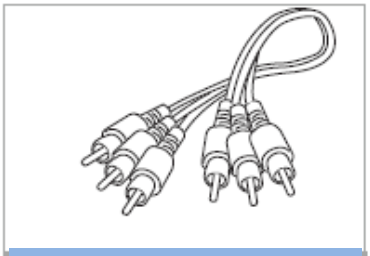
The TizzBird package contains the following items. The shape of items described below may slightly different from the actual contents.

Main Unit

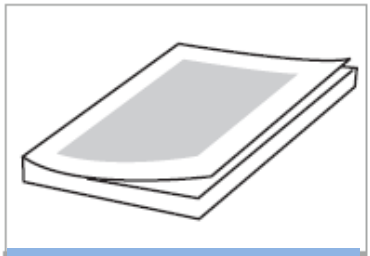
Remote Controller



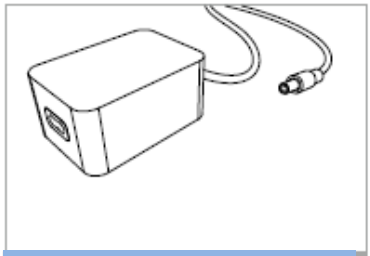
USB 3.0 Cable



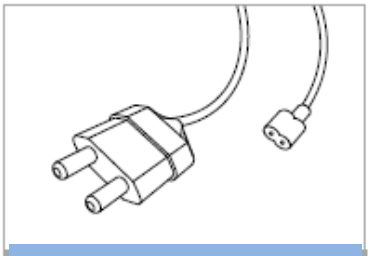
A/V Cable



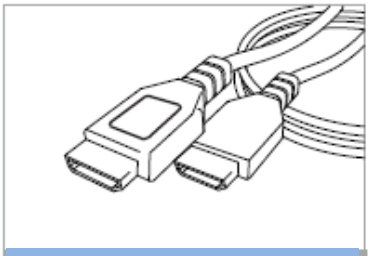
Quick Guide



Power Adapter



Power Cable

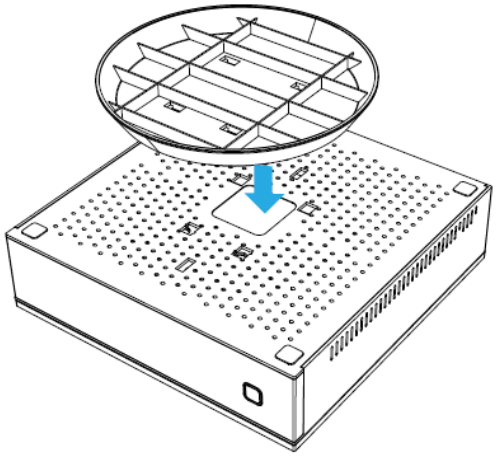


HDMI Cable

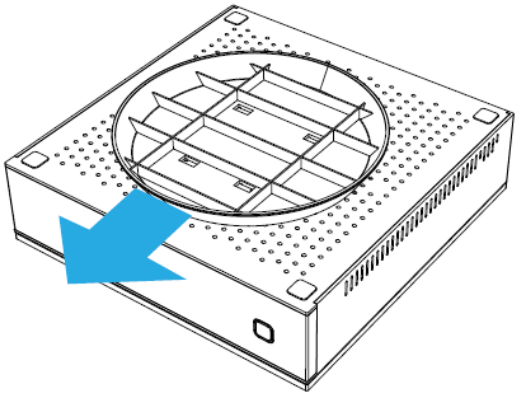
6. Installation and Connection

Pedestal Assembly

This is a guide for assembly of pedestal into the main unit. No screw needed.



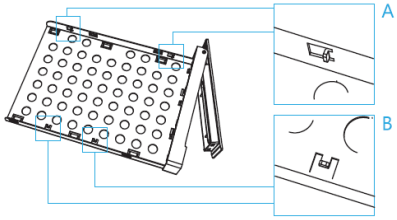
Find out six bumps of the pedestal and assembly them with six holes of the bottom side of the main unit.



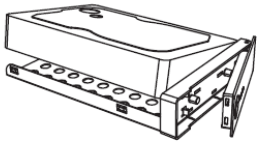
Push the pedestal to the front side until the "CLICK" sound.

HDD Installation

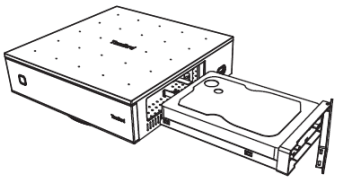
This is a guide for installation of HDD into the rack. No screw needed



Before install the HDD into the rack, please check the four bumps on the rack. There are two A bumps on the side, and two B bumps on the bottom.

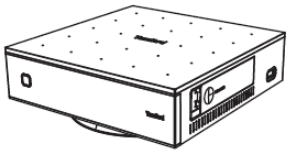


Find out the side holes of HDD, and assembly them with two A bumps. Insert the HDD first on the side. Then assembly the bottom holes of HDD with two B



Insert the rack smoothly into the main unit. Please make sure that handle of rack is open status, before insertion.

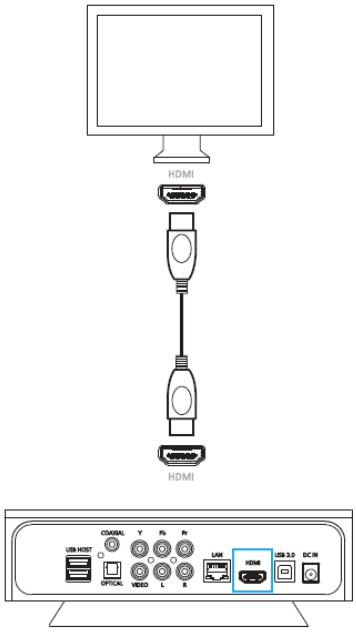
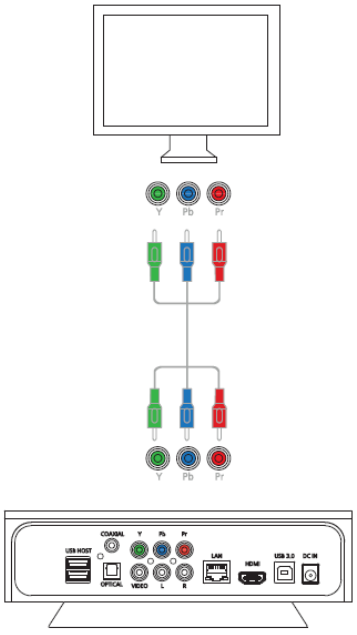
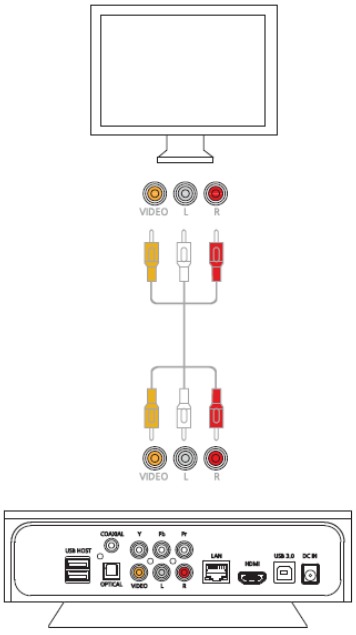
Push the rack until it reaches internal end of the unit.



Close the handle of the rack after insertion.

Connecting the Video

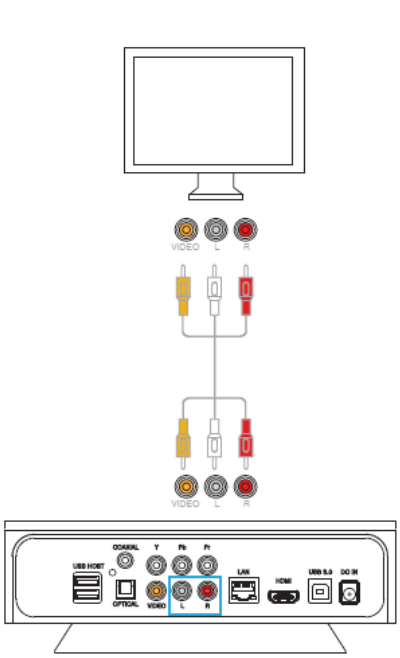
The TizzBird supports HDMI, Component and Composite video output for connection to a TV, and each output needs to be configured in the settings browser depending on what cable is being used.

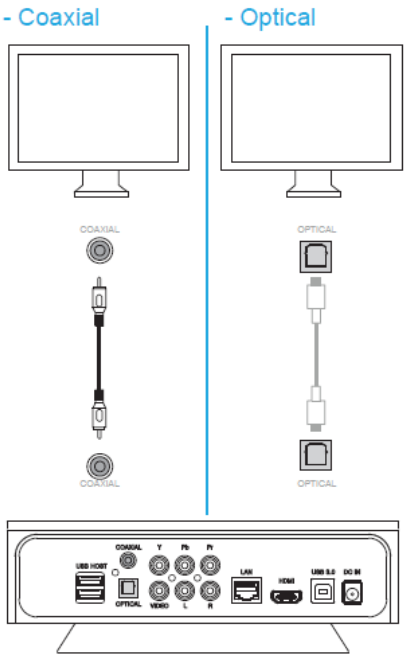
Connection to HDMI Out	Connection to Component	Connection to Composite
Connect the TizzBird output to your TV using an HDMI cable. 1080p full HD contents can be output as 1080p only thru HDMI. HDMI can also transfer the audio signal and no need to connect another cable for audio.	Connect the TizzBird output to your TV using the component video cable. Select an appropriate video input mode on you TV until you get the main page of the TizzBird. For the audio, please connect the stereo cable (Red/White one).	Connect the TizzBird output to your TV using the included Composite (Yellow one) video cable. Select an appropriate video input mode on you TV until you get the main page of the TizzBird. For the audio, please connect the stereo cable (Red/ White one),
		

Connecting the Audio

The unit provides RCA analog stereo output, coaxial and optical digital output and HDMI to connect the audio device like AV receiver and TV. Please connect to audio outputs to appropriate port of audio device. Please select the appropriate input at the audio device using remote controller after connection.

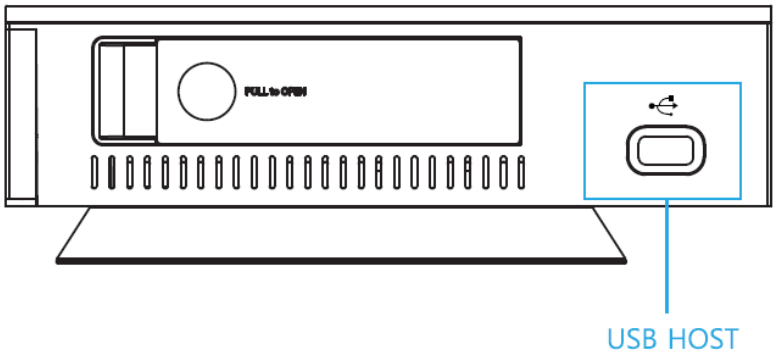
Connection to TV	Connection to AV Receiver
Connect the two audio cables, the white one on the left side and the red one to the right side, to the appropriate AUDIO terminal on your TV.	Connect the coaxial or optical cable to multi-channel AV receiver. The compressed audio stream will be directly transferred to the AV receiver and you can enjoy the multichannel surround sound.





Connecting USB Device

TizzBird provides three USB 2.0 host ports to connect various external devices, such as FLASH MEMORY drive, external USB HDD enclosure, digital camera/camcorder, keyboard & mouse, or Wi-Fi USB dongle.



MOUSE/KBD

Initial Display Setup for TV

1) Please connect AV cable with TV and connect the power supply cable to the unit. Turn on the power using *<POWER>* button on remote or POWER key on the front side of the unit.

2) Video Configuration

Wait until be able to see below screen and press <OK> button. Then select menu language.

3) If the initial TIZZBIRD screen is seen, select the "SETTINGS" browser at the home screen, then configure the SYSTEM/ AUDIO & VISUAL SETTING, etc.

7. Using Remote Controller

POWER	Turn power ON/OFF
TV-OUT	Change the TV Output mode
NUMBER	Input numbers
HOME	Go to HOME screen
MENU	Pop-up MENU screen
BACK	Resume to previous screen
PREV/NEXT	Move to previous /next item (page)
ARROW	Move to each directed item
OK	Select
COLOR	Optional "hot" context button
PLAY/PAUSE	Play or Pause
FF/REW	Fast-Forward and Rewind
VOLUME	Volume Up/ Down
CHANNEL	Channel (PVR) or Sync (Subtitle) Up/Down
RECORD	Record (PVR)
MUTE	Mute the audio
BOOK MARK	Bookmark the current scene
SEARCH	Time/ Chapter/ Bookmark Search

8. Initial Screen

8.1 Turning On Power

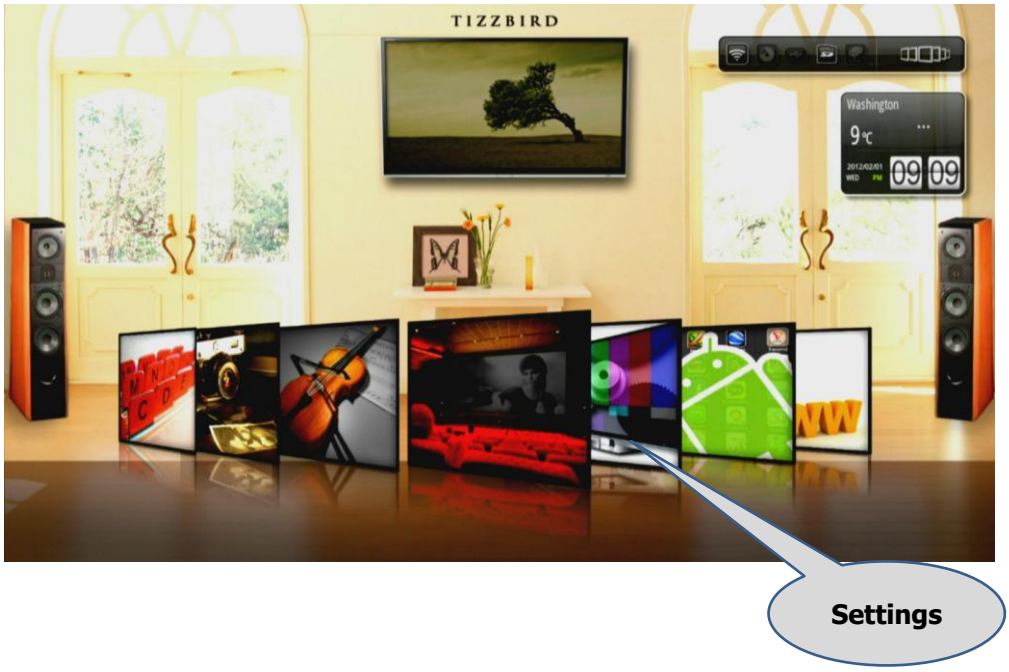
Press *<POWER>* button on the remote or press the power key at front panel to turn on the power. The unit will start boot-up.

LED will blink fast during the booting. LED will keep fade-in & out during normal operation after booting.

8.2 Setting TV Output

The TV-OUTPUT selection screen will pop-up and switch various resolutions if TV-OUTPUT is not configured yet, like chapter6 "Initial Display Setup for TV". Press *<OK>* button if screen is shown.

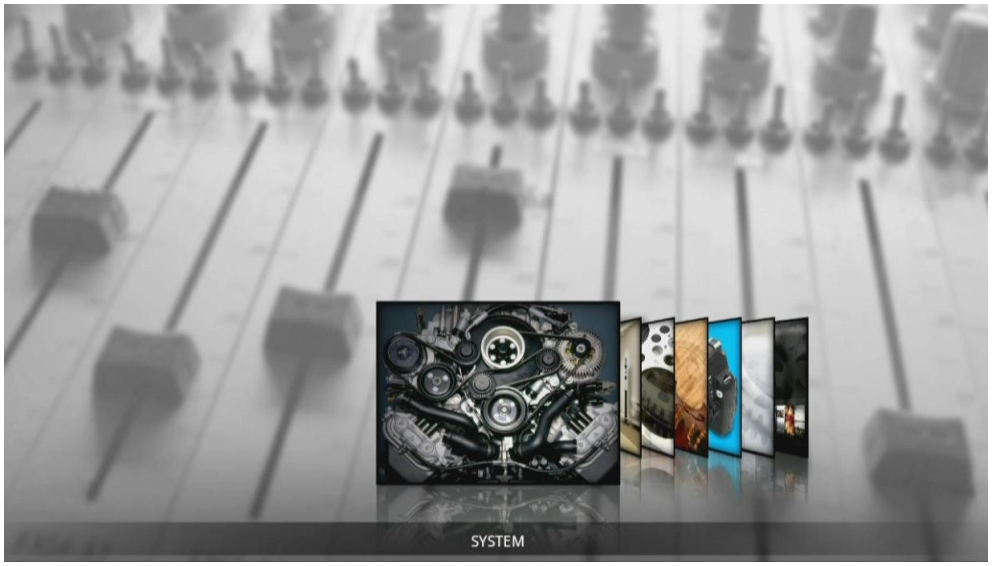
Still didn't get the screen, try <TV-OUT> button on the remote until getting the output screen on TV. If TV-OUT is set correctly, HOME SCREEN will appear like below.



8.3 Setting Menu Language

Please setup the menu language according to the country.

HOME SCREEN → Select "Settings Browser" as previous page's image, then press *<OK>* button. The following screen will appear. Select "System" to enter the <System> setting.



"Language" menu at the top of the right pane will be shown. Select it and press *<OK>* button to change the menu language. Select appropriate language then press *<OK>* button.

8.4 Screen Alignment

Please make sure that TV output is not configured as "OVER-SCAN" mode. It should be "ORIGINAL SCAN" or "NO OVERSCAN" mode to see the whole picture output of this unit. This setting can be changed on TV's video output settings.

If the whole screen cannot be seen or it's not fit into TV screen, the screen size can be manually adjusted to fit in. Select <Settings Browser> → <System> → <Screen Alignment>.

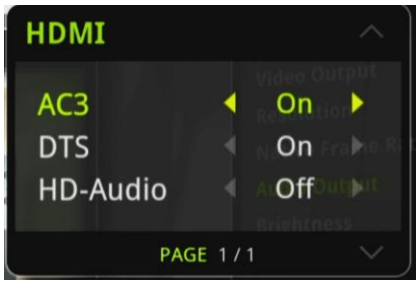
If this menu is selected, the below image will appear and screen size can be adjusted by pressing <UP> or <DOWN> button. Please press *<OK>* button to confirm the adjustment.

8.5 Audio & Visual Settings

Please setup the <Screen Resolution> to select most proper video resolution for the display. Select <Settings Browser> → <Audio and Visual → <Screen Resolution>, then press *<OK>* button. Select an appropriate resolution and press *<OK>* button.

Audio output should be configured as "Digital" (Compressed) mode to connect AV receiver. Select <Settings Browser> → <Audio & Visual> → <Audio Output>, then press *<OK>* button. Select appropriate audio output port and then select "Digital" at that screen.

When "Digital" mode is selected, the pop-up will come out like following picture. The each audio format can be configured as ON/ OFF of pass-thru. Please choose appropriate "On" or "Off" status according to the capability of connected audio device.



"HD-Audio" should be turned ON only when you have HDMI 1.3 capable of AV receiver.

8.6 Network Settings

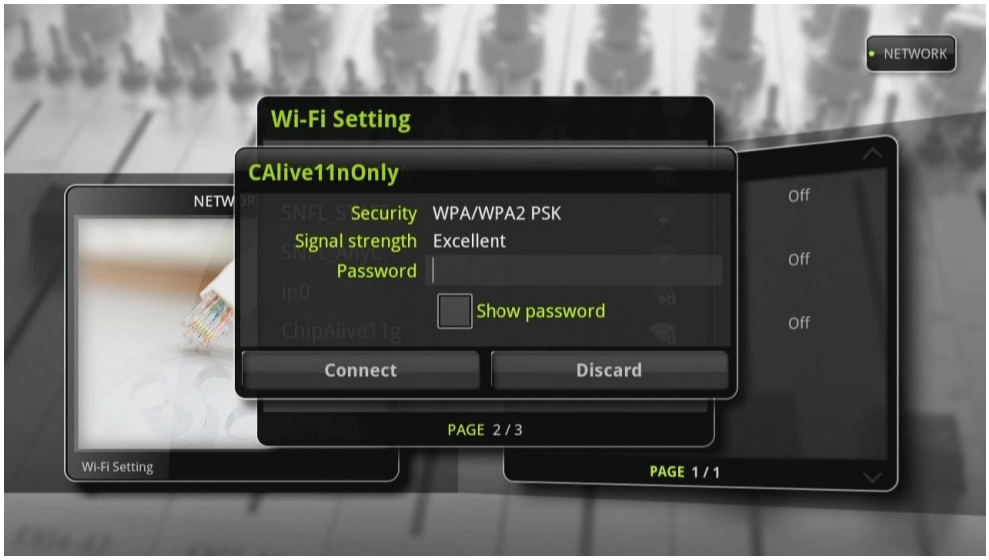
Network should be configured to surf Internet and download movie poster automatically from Internet and do network game. There are two types of network setting. One is Wi-Fi (Wireless), the other is Ethernet (Wired).

The USB Wi-Fi dongle should be prepared to connect network thru Wi-Fi. This optional Wi-Fi dongle can be purchased thru TizzBird local dealer, or any USB Wi-Fi module that is using RealTEK RTL8188 or Ralink RT3070 as internal chipset can be used. Prepare it and connect it to USB host port of the unit. Prepare keyboard or mouse if the password of Wi-Fi is string. Below mouse or keyboard is compatible with this unit.

- ✓ Keyboard: USB type or Wireless RF type
- ✓ Mouse: USB type or Wireless RF type

8.6.1 Configure Wi-Fi Connection

Select <Settings Browser> → <Network> → <Wi-Fi Connection>. If the wireless AP was not configured before, the below <Wi-Fi setting> window will pop-up automatically.



This pop-up shows the wireless access points available. Select one of them that can be accessible. It shows the signal strength and prompts the password, if password is required like below picture. Password can be input by remote button if it's composed of numbers. Or mouse or keyboard need to be used if the password is string.

- ✓ To maximize the performance of wireless connection, 802.11n mode is recommended. 1080p MKV movie or HD broadcasting stream can be streamed without stuttering. Wireless AP should be configured like below.
- ✓ Mode → 11n Only
- ✓ Encryption → WPA/2PSK

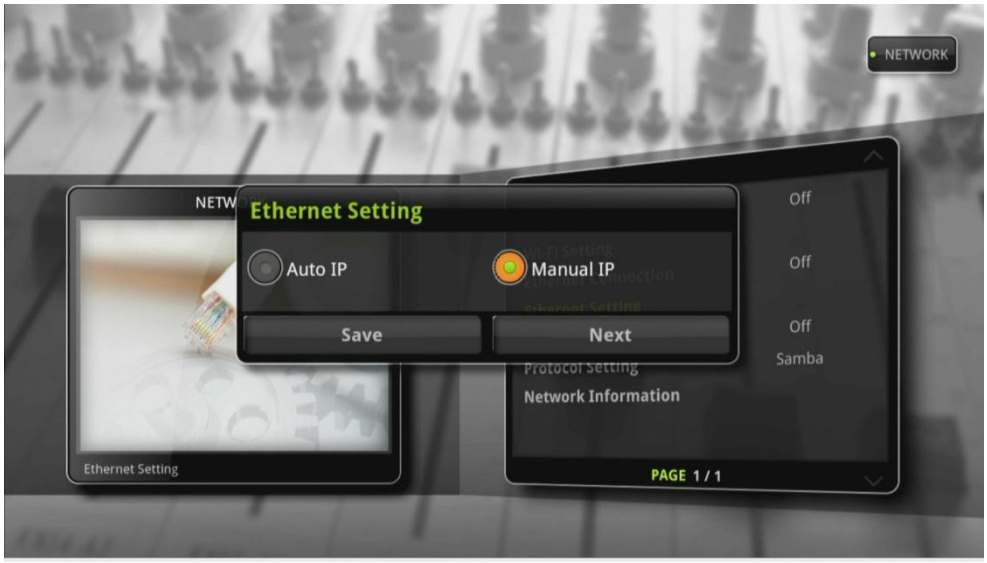
8.6.2 Configure Ethernet Connection

Gigabit Ethernet can be also used to connect wired network. Connect the network cable at the Ethernet network port at rear side of the unit.

1) Select <Settings Browser> → <Network> → <Ethernet connection>.
2) If the configuration is "Auto IP", the network connection will occur immediately.
3) Otherwise, network setting should be manually configured by selecting <Ethernet Settings>.

8.6.3 Configure Manual-IP Ethernet

To configure the manual-IP, select "Manual IP" like following picture then select "Next" button.



The following dialog box will appear. Enter the each digit by pressing number buttons on remote controller. Or you can use the mouse to enter the number. The virtual keyboard will appear if you click the field to enter.

8.7 Turning Power Off, Completely Power Off

To turn off the power, press *<POWER>* button on the remote or press power key on the front panel. The LED will turn into slightly dimming status, and this shows the unit is in "STAND-BY" status.

Press power button on remote control more than 1 second will bring up the following POWER-OFF DIALOG BOX.

Power Off → Turn off power completely

Reboot → Reboot the system

Suspend → Make it suspend mode

This unit consumes quite little power which is less than 0.4W at STAND-BY mode. This can be achieved by minimal power consumption logic. This unit supports high speed booting mode from STAND-BY. It takes less than two seconds to resume to the normal operation status from STAND-BY mode.

To turn power off completely, please press and hold *<POWER>* key at the front panel more than 4 seconds. The LED will be turned off completely.

※ The status of LED lighting is like below

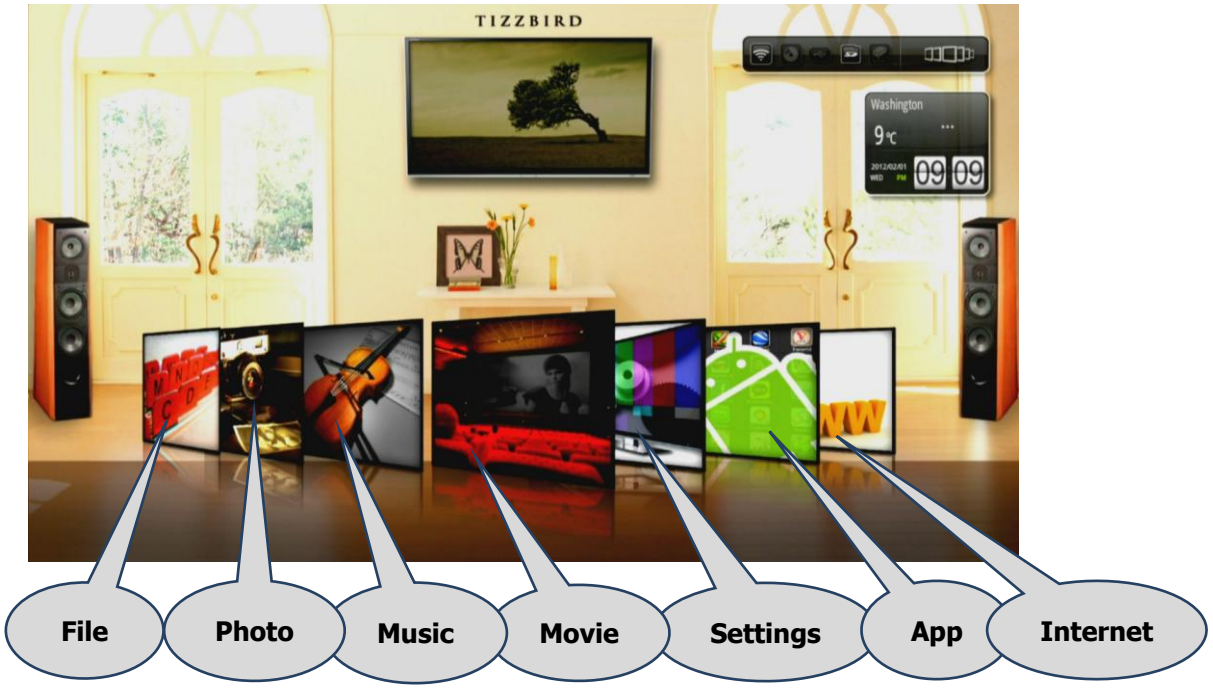
- ✓ Initial booting → Blinks fast
- ✓ Operation → Stays at maximum bright.
- ✓ Stand-by / Off → Completely off

9. Start-Up and Terminate

9.1 Home Screen

The below HOME SCREEN will appear after booting up. It shows 7 different items. The each item can do the each designated browsing. For example, movies can be browsed at MOVIE BROWSER. HOME SCREEN consists of 7 browsers including (from left to right) FILE/ PHOTO/ MOVIE/ MUSIC/ SETTINGS/ APP/ WEB browsers.

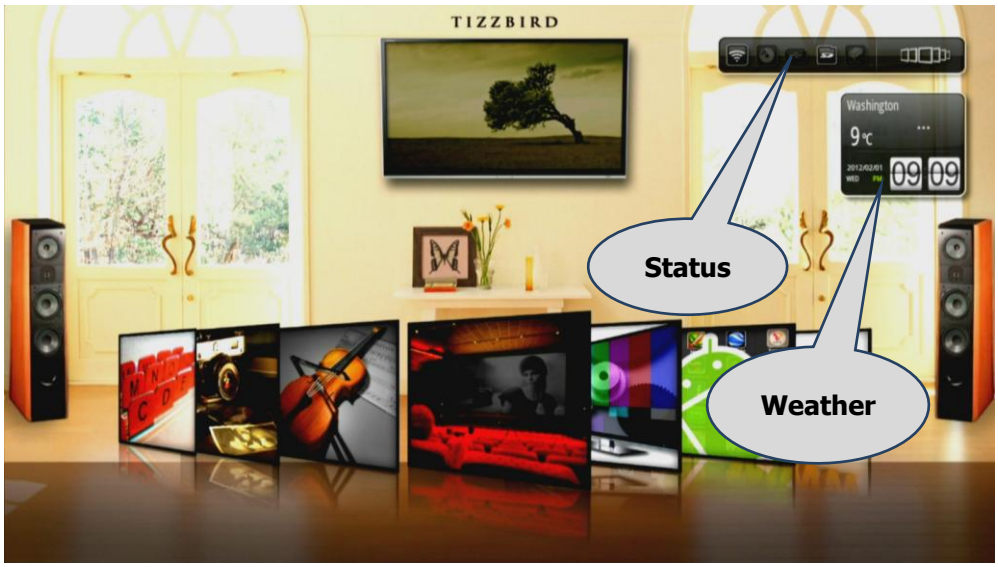
To execute each browser, select the browser by arrow buttons on the remote and press *<OK>* button.



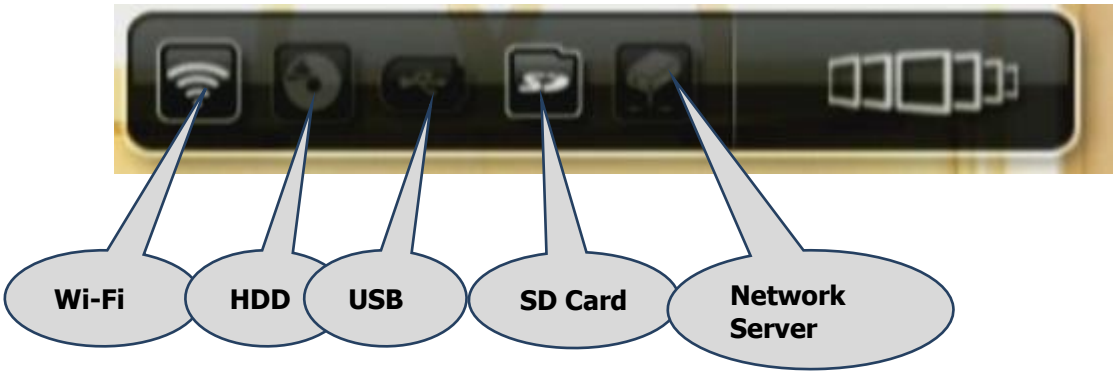
The default selection would be MOVIE BROWSER at first start-up. TizzBird is the unique unit compared to other units, since it retains consistent user-interface based on the powerful database feature of Android OS. TizzBird provides full featured cover-view and imaged oriented browsing, which is highly intuitive. The other units can only provide user interface, mostly text based information with additional images.

Movie Browser: Register all movie files and let you browse them on poster based.
Music Browser: Register all music files and let you browse them on album-art based.
Photo Browser: Register all photo files and let you browse them on folder image based.
Settings Browser: Browse available settings.
App Browser: Browse registered applications and let you select and execute them.
Web Browser: Let you surf Internet.
File Browser: Browse files and folders based on the device based. (Legacy mode)

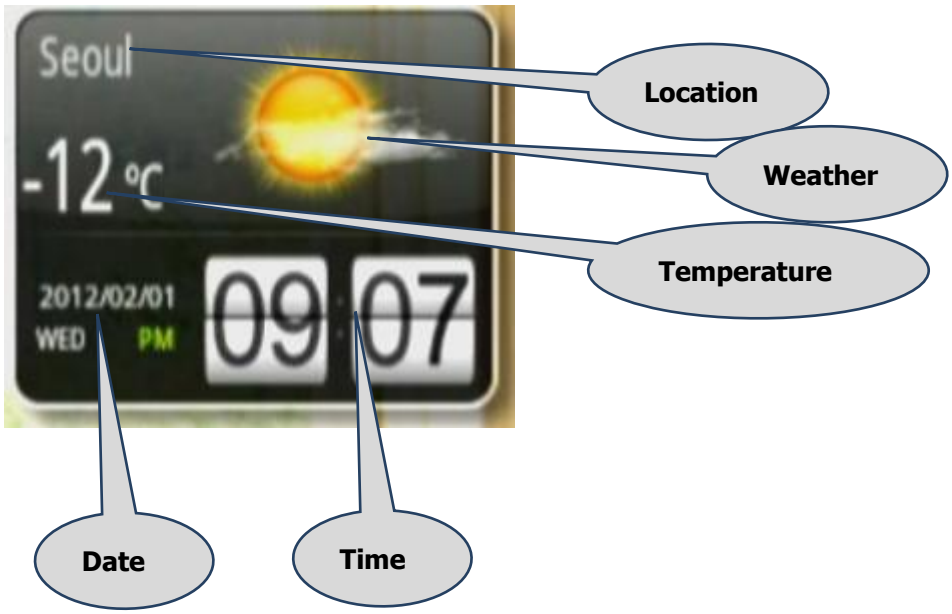
9.2 Status Bar and Weather Widget



Home screen also contains status bar and weather widget. The status bar shows current status of each device. Highlighting of each icon means it's active or mounted.



The weather widget shows current date, time and weather.



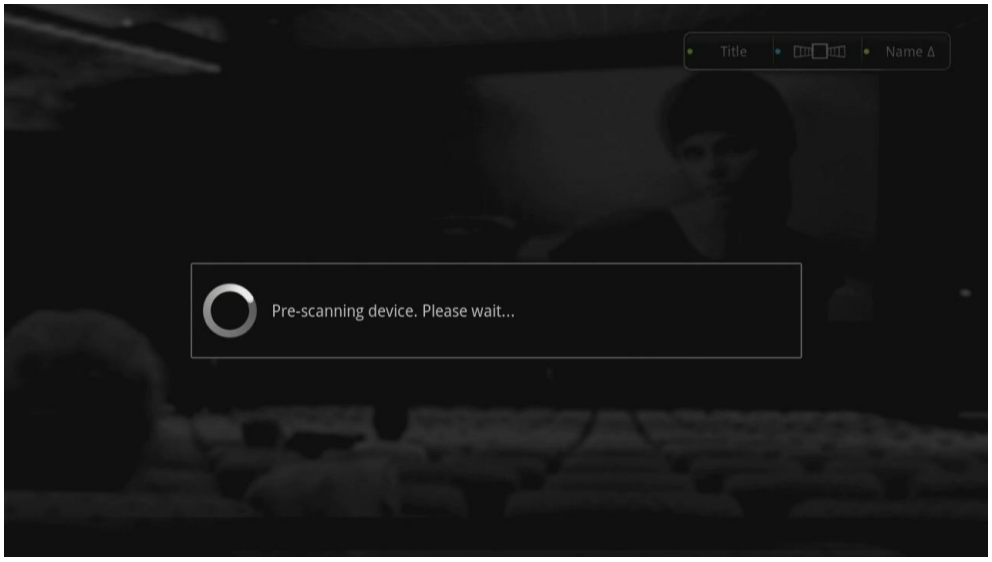
9.3 Change Cover-View Style

TizzBird provides Open-GL 3D based Cover-View user interface. One of six different styles of cover-view can be selected as a view-style. Press "BLUE" color button on the remote. The cover-view selection pane will pop-up and let you select one of them.

This kind of selection is also available at MOVIE/ MUSIC/ PHOTO/SETTINGS browser, and one of them can be chosen always by pressing "BLUE" color button on remote.

9.4 Movie Browser

Movie browser will scan movie files on the devices when booting first or attaching external device thru USB. It will take several minutes (depends on size of HDD) for the 1st scanning. Once it's scanned, it will take much less time on next boot.



If movie posters are available for the movies, then cover-view screen like below will appear.

9.5 Terminate

Press *<POWER>* button on remote or *<POWER>* key on the front will turn the unit be into STAND-BY status. The unit will consume virtually nothing (less than 0.4W) in the STAND-BY status. The LED will be in the dimming status.

10. Watching Movie

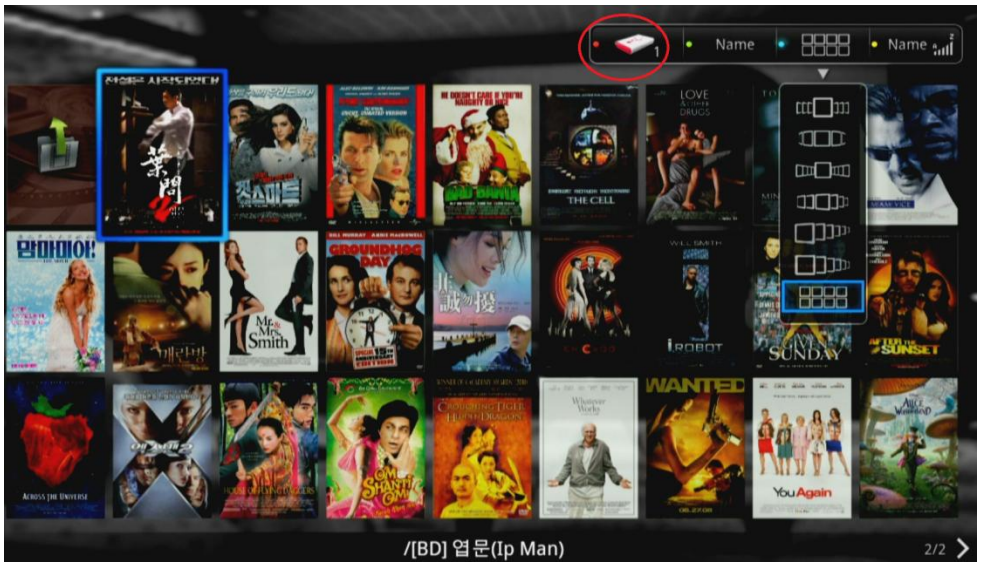
10.1 Movie Browser

If MOVIE BROWSER is selected and if the posters were already scraped or registered for movies, then the following screen will appear. This screen is called "MOVIE BROWSER" screen. Up to 15 movies can be browsed at once per page. Arrow keys can be used to navigate thru posters. Keep press arrow key to browse continuously.

Once the end of the page is reached, then arrow image will appear on the screen. Select it to see the next page.

10.2 Selecting Device and View

The device and view can be selected at movie browser. This type of device and view selection can be done on music and photo browser as well. Press **RED COLOR** remote button to select the device.



The RED circle on the above picture shows current selected device. The *DATABASE, HDD, external USB* or *NETWORK DRIVE* can be selected if they are available. The top icon below represents the DATABASE.

[Device Selection]

[View Selection]

Selecting DATABASE will scan all the movie files on every device and show them. Selecting each device like HDD, USB or NETWORK DRIVE will just show the folders on that device. It will show the <Movie> folder on that device and will be browsed by FOLDER BASE.

Press **BLUE COLOR** button will bring the view menu like above [View Selection] picture. The one of the views can be selected to show proper browsing method. The WALL type view is recommended for general browsing.

10.3 Movie Browser Menu

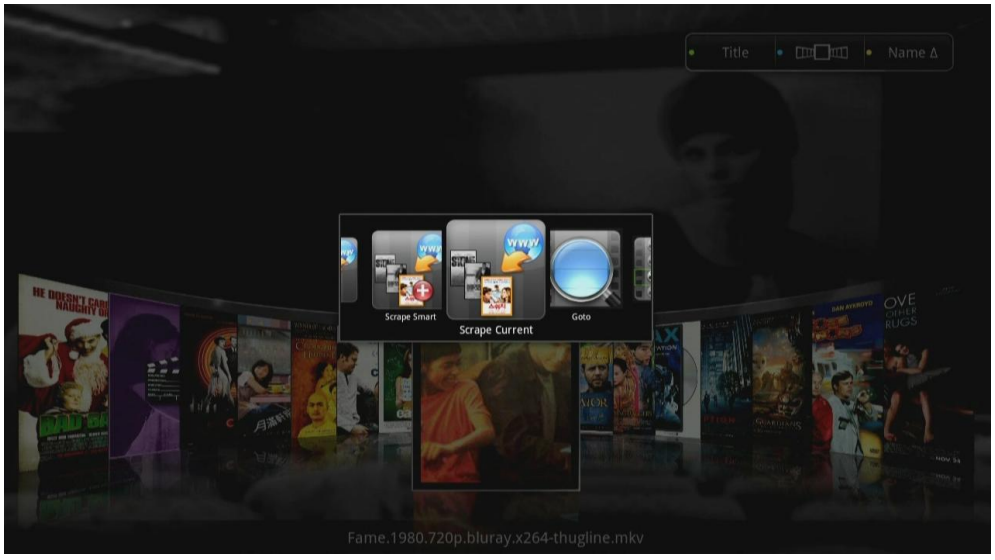
<MENU> button at "MOVIE BROWSER" can be used to do various actions including searching movies, scraping movie posters, jumping based on bookmarks & resuming lists. Press *<MENU>* button on the remote.

"SEARCH" menu like above picture lets you search the movie quickly based on the title names and other information. Press *<OK>* to bring the following image. Use *<UP>* or *<DOWN>* arrow key to select the index, *<LEFT>* *<RIGHT>* arrow key let you change the digit of the wheel control, so titles can be browsed fast. Press *<OK>* to bring the poster of the selected movie.

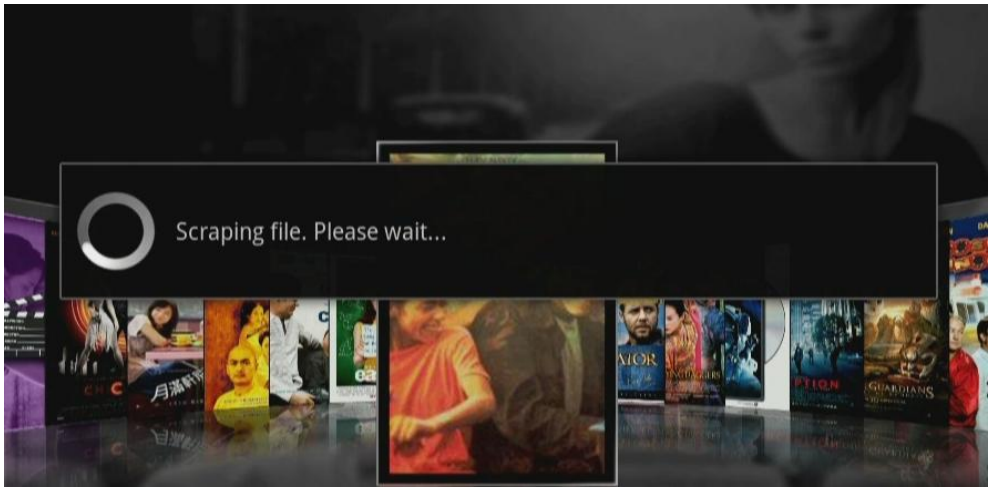
10.4 To Add Movie Poster

Movie posters should be added to make fancy movie browser like following screen. TizzBird has built-in poster downloader inside called <SCRAPER> which means scraping the movie information from network. Network should be connected before scraping movie posters. Please refer to section 8.8 to configure network settings. If movie does not have poster, the default image will appear like following screen. Press *<MENU>* to add movie poster.

Select <Scrape Current File > on the menu and press *<OK>*.



The following screen will appear when start scraping.



The scraping will be performed based on the file name, so there can be a chance the file name is not correct or not good enough. In this case, scraping can be tried again on the same file. The dialog box will be pop-up to enter or revise the file name to scrape. Click the dialog box with mouse to bring the virtual keyboard, so the scraping file name can be changed.

Press *<DOWN>* button on remote or click *<SCRAPE>* button on the dialog to restart the scraping.

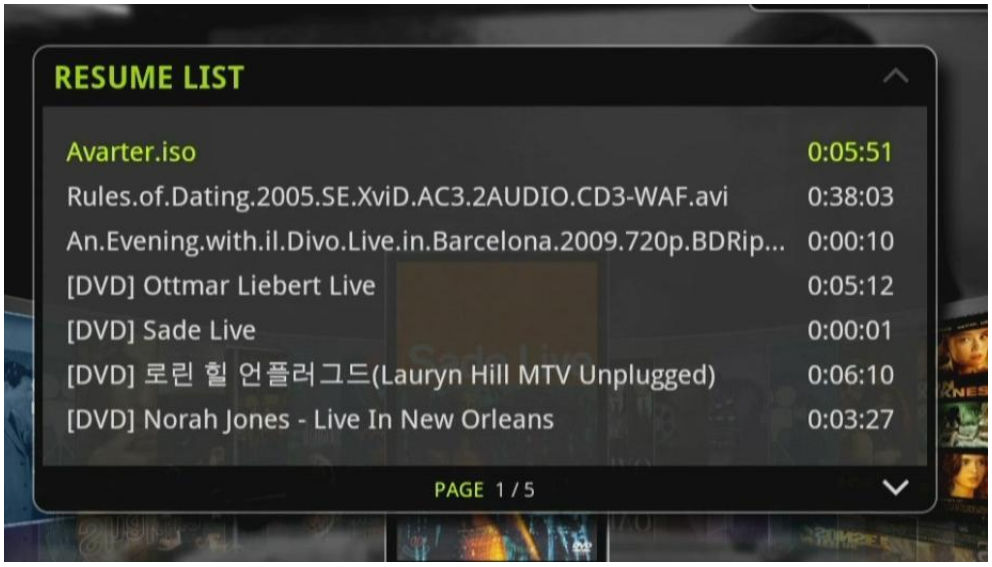
※ It's quite tedious to do the same things on all movies. There are two menu items to simplify those jobs. These menus will run on the background since it will take quite long time to do the scraping. Movie can be playback still while the background job is running.

Scrape All: Ignore previous scraping results, and restart scraping for all movies.

Smart Scrape: Find not scraped files and start scraping.

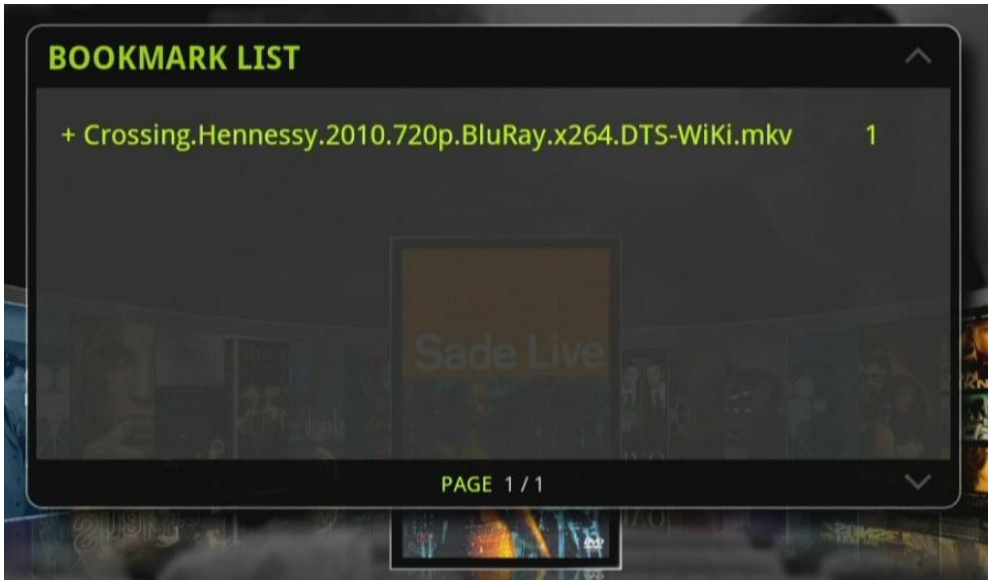
10.5 Resume and Bookmark

TizzBird provides RESUME function to the last playback position of movie, so it's not necessary to search it again manually. Press *<MENU>* button at MOVIE BROWSER and select <RESUME> menu to pop-up the resuming list. The resume list will appear like following image. Select wanted movie to resume to last playback position.


RESUME LIST
Avarter.iso 0:05:51
Rules.of.Dating.2005.SE.XviD.AC3.2AUDIO.CD3-WAF.avi 0:38:03
An.Evening.with.il.Divo.Live.in.Barcelona.2009.720p.BDRip... 0:00:10
[DVD] Ottmar Liebert Live 0:05:12
[DVD] Sade Live 0:00:01
[DVD] 로린 힐 언플러그드(Lauryn Hill MTV Unplugged) 0:06:10
[DVD] Norah Jones - Live In New Orleans 0:03:27
PAGE 1 / 5

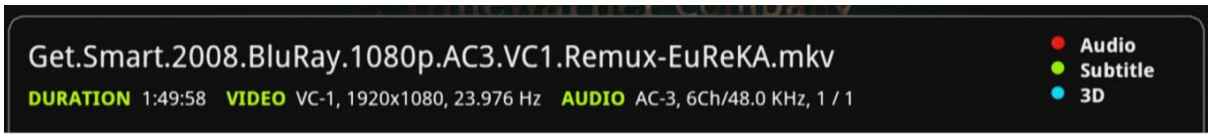
TizzBird also provides BOOKMARK function to memorize the scene position of movie. Press *<BOOKMARK>* button to memorize at wanted scene when playback the movie.

Press *<MENU>* button at MOVIE BROWSER and select *<BOOKMARK>* menu to pop-up the bookmark list. The bookmark list will appear like following image. Select wanted movie and position to resume to bookmarked position.



10.6 Movie Playback Menu

The information pane will appear at bottom side of screen as soon as movie starts like below picture.



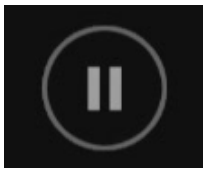
It will show title, running time, video and audio types. It also shows color buttons on the remote that can be used to control movie playback.

- RED color button: Select audio
- GREEN color button: Select and control subtitle parameters.
- BLUE color button: Select video parameters and 3D movie types.
- YELLOW color button: Show movie playback information

TizzBird provides various control functions during movie playback. These functions include <TIME/CHAPTER SEARCH>, <INFO>, <SUBTITLE>, <AUDIO> and <VIDEO> settings. Most of functions can be activated by pressing *<MENU>* button. Press *<MENU>* button to pop-up the following menu screen.

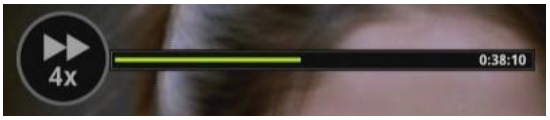
10.7 Playback Speed Control

TizzBird provides various playback speeds and skip controls during playback including PAUSE/ FAST-FORWARD/ REWIND/ PREVIOUS/ NEXT.



Press <PLAY/PAUSE> button to play or pause the playback.

Press <PREV> or <NEXT> button to skip to previous or next chapter.



Press <FF> button to fast-forward playback. It will change from 4x > 8x > 16x > 32x then again 4x if press continuously

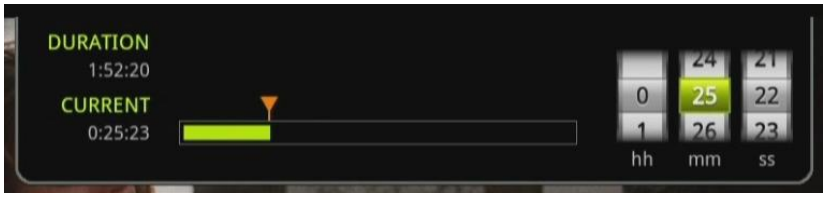
Press <REWIND> button to rewind playback. It will change -4x > -8x> …

10.8 Searching Menu (Time, Chapter, Bookmark)

Press *<MENU>* button and select following image to search the movie by time, chapter or bookmark.

Select <SEARCH> image.

The following screen will appear after selecting <SEARCH> menu. Playback time position can be changed by arrows keys at wheel user interface. The CHAPTER or BOOKMARK field can be also appeared if they are available.



Press <UP> or <DOWN> key to select time.

10.9 Playback Information Menu

Select <INFO> image at movie playback menu to confirm the movie playback information.

Select <INFO> image.

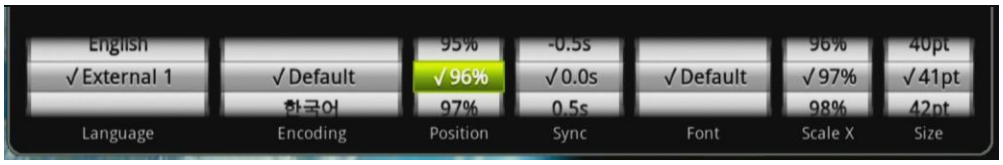
The movie information and current playback position will appear like following image.

10.10 Subtitle Menu

Select <SUBTITLE> image at movie playback menu to control the subtitle language, position, size, sync and font

Select <SUBTITLE> image.

The subtitle position would be lowest bottom side at 100% and would be top at 0%.

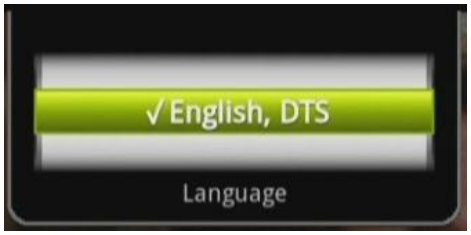


10.11 Audio Menu

Select <AUDIO> image at movie playback menu if multiple audio tracks are available.

Select <AUDIO> image.

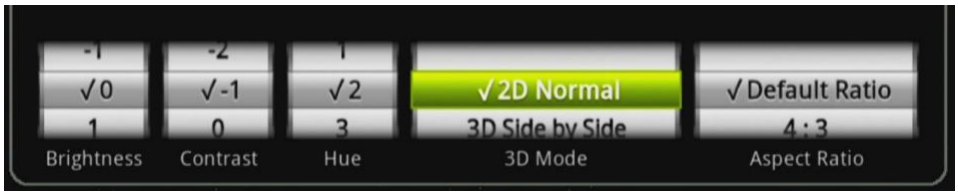
Press *<OK>* after selecting audio format or language audio to change the audio track.



10.12 Video Parameter Menu

Select <VIDEO PARAMETER> image at movie playback to change the video parameters like brightness, contrast or hue.

Press *<OK>* after selecting the value to apply.



10.13 Playback 3D Format Movies

TizzBird supports 3D files, if 3D display is available. The supported formats are SIDE-BY-SIDE and TOP-AND-BOTTOM.

- If file name contains 3D and SBS (or TNB) string, then it will turn TV into 3D mode automatically.
- If file name does not contain 3D string, but it contains actually 3D contents, then BLUE button can be pressed to switch the TV into 3D mode.
- The subtitle and menu will be switched 3D mode automatically as well.

10.14 Skip Playback Position

Press *<UP>* or *<DOWN>* key during movie playback to skip movie playback position. The skip duration can be configured at <SETTINGS BROWSER> → <MOVIE> → <SKIP DURATION>. This function is quite simple to use to skip to the wanted scene

. ***<UP>* button →** Skip forward

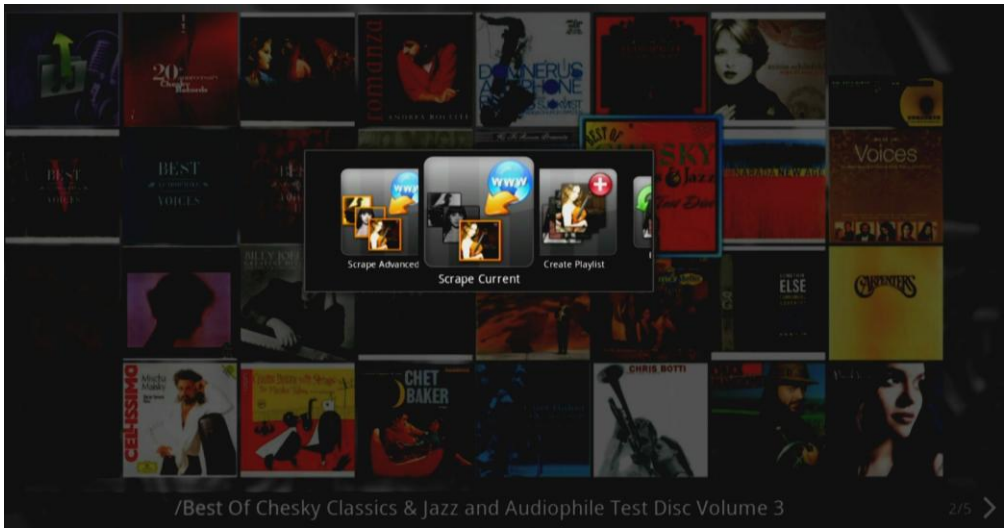
***<DOWN>* button →** Skip backward

11. Listening Music

11.1 Music Browser

The following MUSIC BROWSER screen will appear if music files contain the album art at their tags. Press *<LEFT>* or *<RIGHT>* keys to move each direction. Keep pressing arrow keys to browsing continuously. The album-art screen will keep changing.

Press *<MENU>* button to bring <SEARCH> or <SCRAPE> menu just like MOVIE BROWSER.



11.2 Sorting Music

Music files at large capacity hard drive need to be sorted since it's easy to organize and search. TizzBird provides various "SORTING" functions based on the powerful Android database. Press GREEN color button on remote to sort by ALBUM, ARTIST, TITLE or YEAR. The following two images show SORT BY GENRE and SORT BY YEAR.

SORT BY GENRE

SORT BY YEAR

11.3 Music Playback Screen

Select album art to playback the selected music. The following image will appear.

Left pane: Shows album-art image, current playback status and position.

Right pane: Shows list of songs, song information and album-art thumbnail.

Press *<UP>* or *<DOWN>* arrow key to browse songs and press *<OK>* to start playback. Now playing music will be shown in YELLOW and selected music in LIGHT GREEN color. Press *<PREV>* or *<NEXT>* button to turn pages, if there are more pages on the song list,

11.4 Music Playback Menu

Available button when playback music is like this:

***<PLAY/PAUSE>* button**: play or pause the music

***<UP>* or *<DOWN>* button**: skip playback position designated at settings.

12. Watching Photo

12.1 Photo Browser

The following PHOTO BROWSER screen will appear when selecting PHOTO BROWSER. It's composed of superb folder thumbnails COVER-VIEW which is quite neat and intuitive. Each image shows thumbnails of photos that folder contains.

12.2 Photo Browsing Menu

Press *<MENU>* button to bring quick <SEARCH FOLDER> function.

12.3 Photo Wall & Photo Stack

The following screen will appear after selecting one of the folder thumbnails. Photo wall can be used to select one of photos. Use arrow buttons to navigate the photos and press *<OK>* button to see the photo at full screen.

12.4 Photo Playback Screen

Photo slide show will start automatically, so next photos will keep appearing with transition effect. The various TRANSITION EFFECTS can be configured at <SETTINGS BROWSER> → <PHOTO>.

12.5 Slideshow Control

Slideshow can be controlled by arrow and <PLAY/PAUSE> buttons. Press <PLAY/PAUSE> button to pause or resume to playback. Use arrow keys to change the slide direction.

13. Using File Browser

13.1 File Browser Screen

The following screen will appear when selecting FILE BROWSER. This is quite similar browser user interface that legacy media players provided before. Folder or file based browsing is possible on this browser, and selecting and playback the file directly.

The left pane is FOLDER PANE, and the right pane is FILE PANE.

Folders can be browsed by arrow keys and press *<OK>* button to select that folder. The files will be appeared on the right pane if that folder contains the files. The GREEN outline on the pane means it's selected. Press *<RIGHT>* arrow button to move the FILE PANE and select the file. Press *<OK>* to select and start playback that file.

13.2 Selecting Device at File Browser

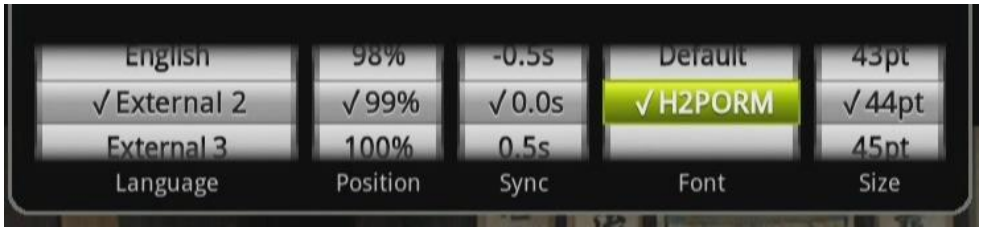
External USB, internal HDD storage device, or network drive can be selected at FILE BROWSER. Press <RED> button on the remote and the device drop-down list will pop-up like following image. Use *<UP>* or *<DOWN>* arrow key to browse devices. Choose one of them then press *<OK>* to select it.

13.3 Register Subtitle Font File

Subtitle font file can be selected at file browser. Copy or move the font file (true-type font file - .TTF extension) to the USB drive or internal HDD from PC, then connect the drive to TizzBird. Press <RED> button to select drive and navigate into the folder that font file was copied. The font file will appear like the following image.

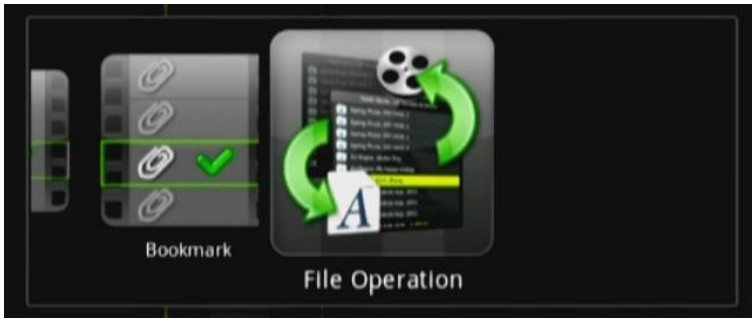
Select one of the font file and press *<OK>* button to register. Several font files can be registered at once.

Registered font files will appear at movie playback screen menu. Press *<MENU>* button and choose <SUBTITLE> icon.



13.4 Using File Operation

Rev 1.12 firmware provides the "File Operation" capability which enables COPY, MOVE, DELETE, RENAME and NEW FOLDER functions. Press "MENU" button on the remote then select the "File Operation" ICON at the pop-up window to enter this mode.



This will bring the following screen.

The left pane is source window and the right pane is target window. The "File Operation" will function from left pane to right pane. The following remote buttons can be used.

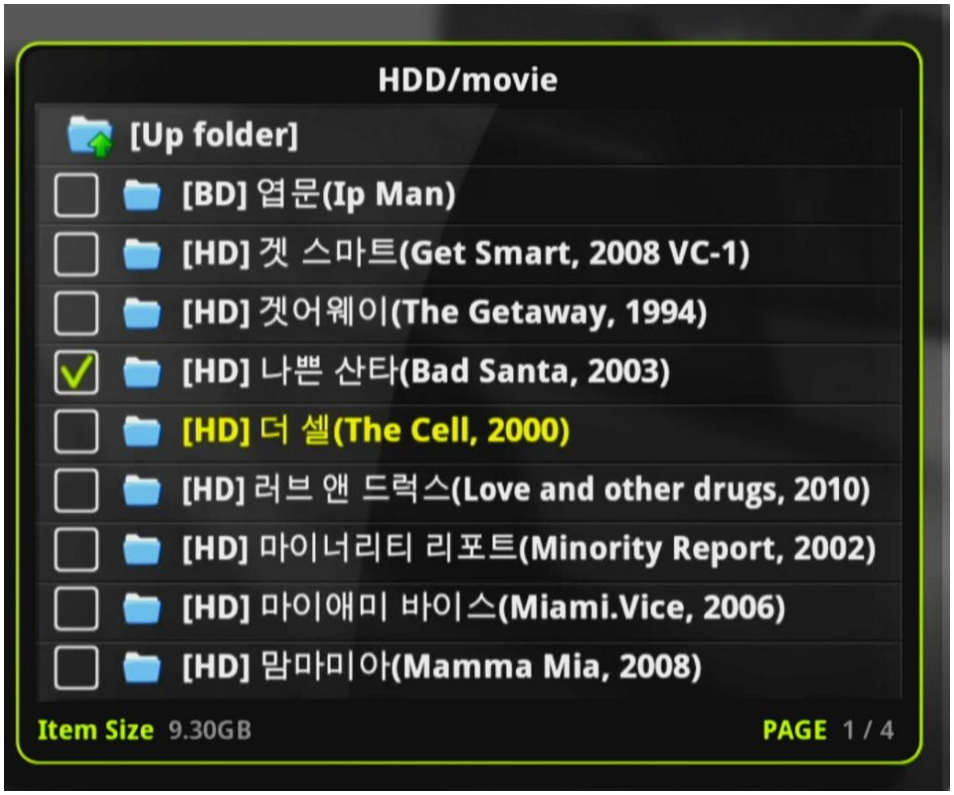
OK button → Browse and enter the folder.

Bookmark button → Select the item to operate.

Menu button → Pop-up the FILE OPERATING ICONs.

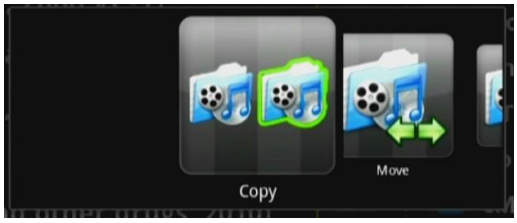
Please use left or right arrow button to move left or right pane. The RED button can be used to select the device at each pane. This RED button enables the selection of source or target device at each pane.

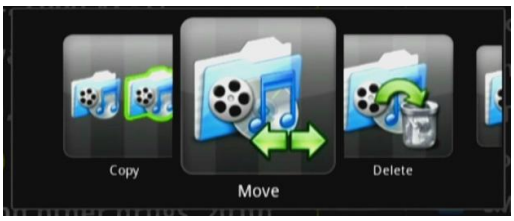
Pressing BOOKMARK button will check the selected item like below picture. The check icon will appear on the small box at left side of item.


HDD/movie
[Up folder]
[BD] 엽문(Ip Man)
[HD] 겟 스마트(Get Smart, 2008 VC-1)
[HD] 겟어웨이(The Getaway, 1994)
[HD] 나쁜 산타(Bad Santa, 2003)
[HD] 더 셀(The Cell, 2000)
[HD] 러브 앤 드럭스(Love and other drugs, 2010)
[HD] 마이너리티 리포트(Minority Report, 2002)
[HD] 마이애미 바이스(Miami.Vice, 2006)
[HD] 맘마미아(Mamma Mia, 2008)
Item Size 9.30GB
PAGE 1 / 4

The total size of selected item will be also calculated whenever BOOKMARK button is pressed. It will take some time if there are many items at selected folder.

Pressing MENU button will bring the following POP-UP menu to select the function. The *COPY, MOVE, DELETE, SELECT ALL, CANCEL, RENAME, NEW FOLDER* can be selected.





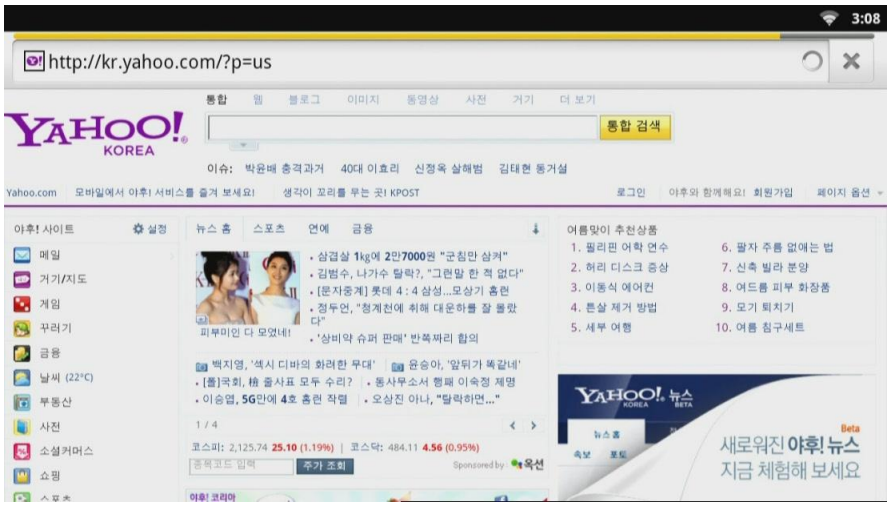
The *COPY* or *MOVE* operation will be performed always from LEFT PANE to RIGHT PANE. The *DELETE, RENAME, SELECT ALL* and *CANCEL* will be performed always at LEFT PANE. The *NEW FOLDER* will be performed on selected pane. Please select the wanted icon to execute the operation.

14. Connecting Internet

14.1 Execute Internet Browser

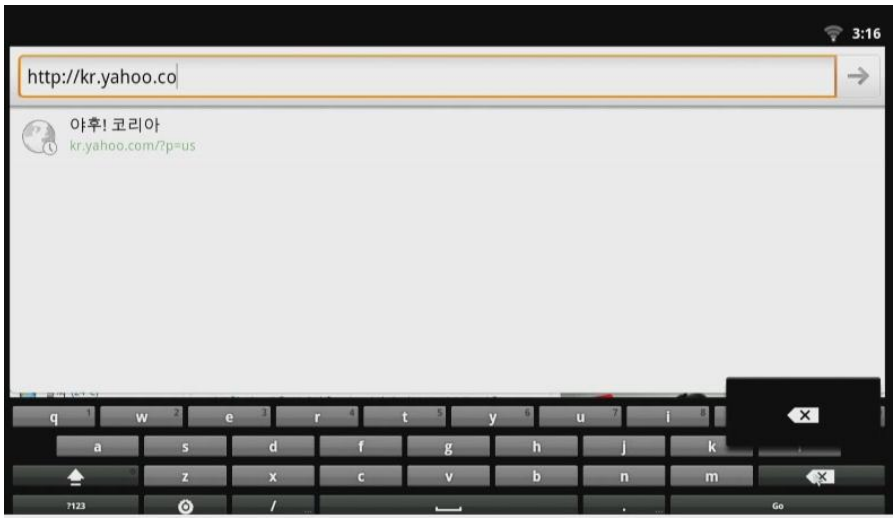
Web browser will appear if WEB BROWSER was selected at HOME SCREEN and network was connected like following image.

※ Using mouse is highly recommended at WEB BROWSING. Wireless RF or USB mouse can be used. Web address or other information can be entered thru virtual keyboard with mouse. Wanted article or link can be clicked with mouse as well.



14.2 Control Internet Browser

Press <BACK> button on remote or click mouse right button to move back to the previous screen. Press *<MENU>* button on the remote to change the home page and register at there.



15. Install & Execute Applications

The most different part of TizzBird compared to legacy devices is favorite applications can be installed and run anytime like SMART PHONE. So it's called SMART MEDIA PLAYER. The genuine smart device let users install and run their own favorite applications.

15.1 Move Applications at Android Phone to TizzBird

The applications on the Android smart phone can be installed on this unit. The procedures are like this.

1) Download or move the applications on the Android smart phone at USB flash drive.

- Move the applications on the smart phone to SD card. This can be done by Android application like "App Monster". This kind of application let user backup their APP to SD card.

- Move the APP at SD card to USB flash drive. Attach the USB flash drive to the unit.

- Run FILE BROWSER at HOME SCREEN, and select the application that you want to install.

The APP at smart phone may have problems when installing or executing since it requires GPS, PHONE or TOUCH function. Or it always shows in portrait mode, since the application is just intended to use on phone.

※ Some APP requires specially touch function. In this case, mouse should be used. So using mouse is highly recommended when running applications.

15.2 Execute Application

The following image will appear when run APP BROWSER at home screen.

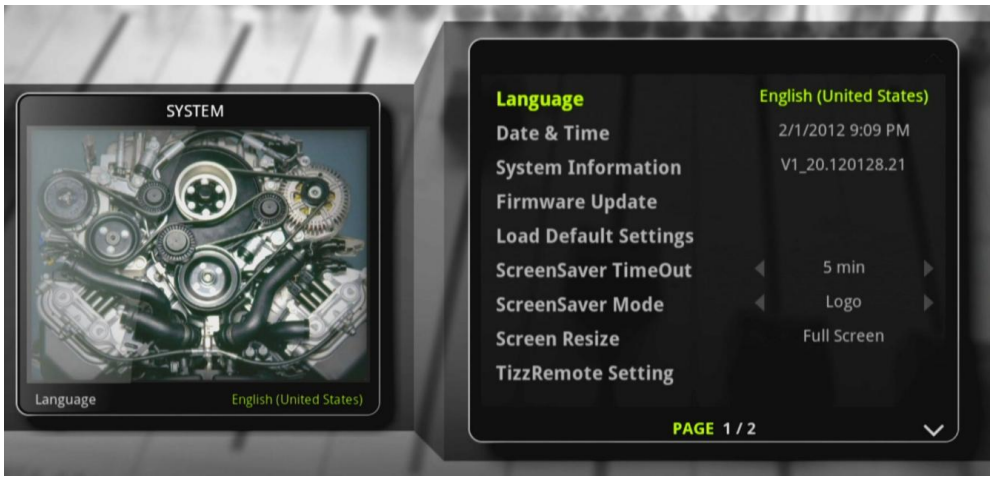
Use arrow buttons to browse the application and press *<OK>* button to execute it.

16. Settings

Various set-ups can be configured at SETTINGS BROWSER.

16.1 System

Menu language, date & time, system information, firmware information and update can be set-up at this menu.



Language → Select menu language. Press *<OK>* to bring the pop-up.

Date & Time → Set up the date & time, manually or automatically.

Network should be configured and connected to get time information automatically.

System Information → Show current system information like firmware version.

Firmware Update → Update the firmware.

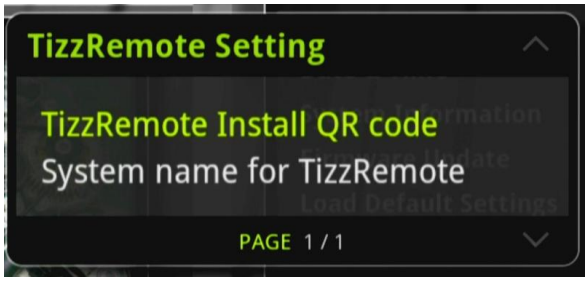
Load Default Settings → Clear the previous settings and get back to the default settings

Screen Saver Time-Out → Set up the screen saver time-out.

Screen Saver Mode → Configure the screen saver icon or off the saver.

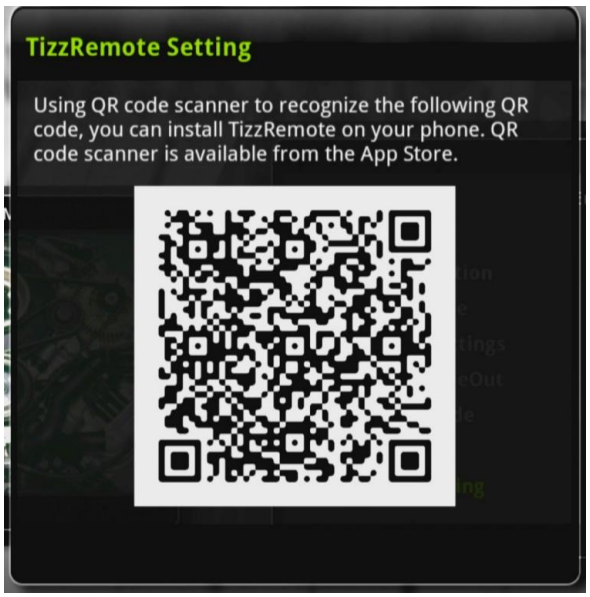
Screen Resize → Configure the size of graphic user interface screen.

TizzRemote Setting → Setup the TizzRemote by QR code and setup the System name for TizzRemote searching.



The TizzRemote™ is the remote application for TizzBird which can replace keyboard, mouse and keyboard.

There are two methods to install the TizzRemote™. The TizzRemote™ itself is already on the Google Market, so you can directly download it at your smart phone. The other way is using the QR code. If you select the above item at the dialog box, the following dialog box will pop-up.

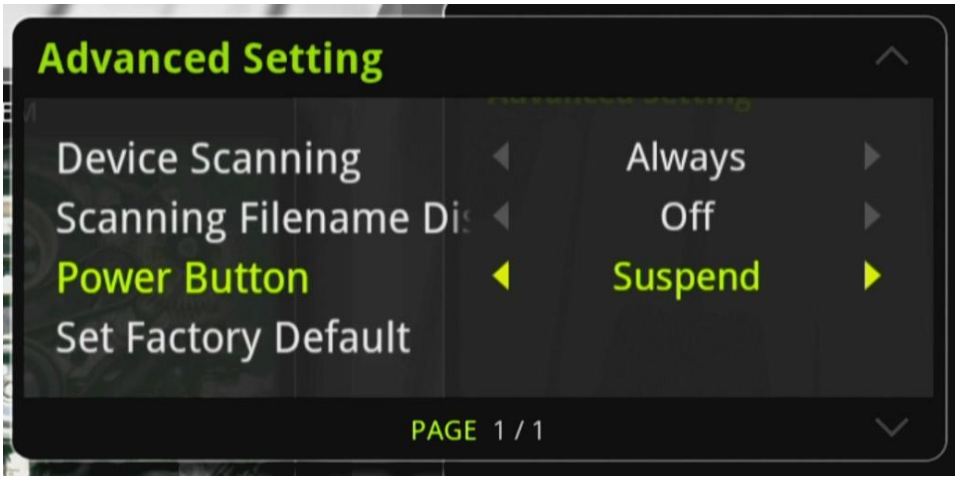

TizzRemote Setting
Using QR code scanner to recognize the following QR code, you can install TizzRemote on your phone. QR code scanner is available from the App Store.

If you have QR code scanner on your smart phone, then scan this QR code with it, the TizzRemote™ APP will be automatically download and installed on your smart phone.

The next page contains more settings like EXNTERNAL KEYBOARD LAYOUT and ADVANCED SETTINGS.

External Kbd Layout → Select between QWERTY or AZERTY type key board.

Advanced Setting → Show advanced (not for casual use) setting.



Device Scanning → Select between scanning device "Always", "New Device Only" and "Never". It will determine the scanner for database will be applied always or new device only or never.

Scanning Filename Display → It will determine display file name during device scanning or not.

Power Button → Select between "Power Off" and "Suspend" when pressing power button. If "Power Off" selected, the system will completely be powered off when POWER button pressed. System will boot up completely from initial stage when next POWER-ON. (COLD-BOOT)

Set Factory Default → Reset the internal data to original one from factory. It will reset the TV output resolution, internal settings and database. It will preserve the application you installed, though.

16.2 Audio and Visual

Video Output → Select video output port.

Resolution → Select resolution of the video output.

Native Frame Rate → Turn On/Off of original frame rate of the source

Cinema Original (24p) → *Enable/ Disable cinema frame rate*

TV Original (1080i 60Hz) → *Enable/ Disable TV frame rate.*

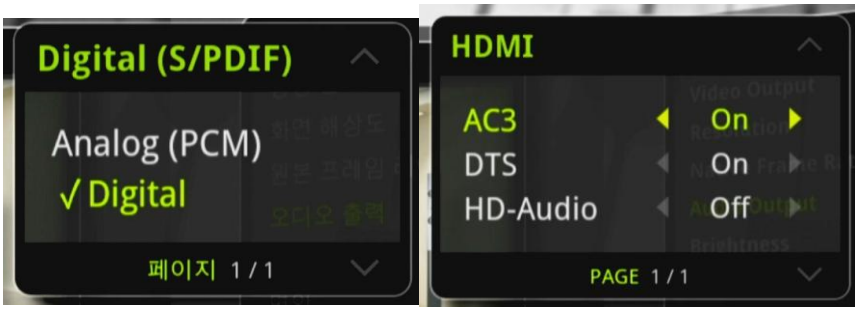
Audio Output → Select audio output port and format

HDMI → *Audio will output to HDMI port*

Digital (S/PDIF) → *Audio will output to digital audio port (optical)*

Analog (RCA) → *Audio will output to analog port (RCA)*

For HDMI and Digital (S/PDIF) port, the format of audio can be also configured such as ANALOG (PCM) or DIGITAL (Compressed). In "Digital Mode", the output can be On/Off for each format.



[Audio Format Selection] [Configuration for each format]

※ In "Digital (Compressed)" output mode, each format (AC3/ DTS/ AAC/ HD-Audio) can be configured as On/Off independently. It's because the capability of connected audio device is quite different.

Brightness →	Change brightness of video.
Contrast →	Change contrast of video.
Hue →	Change hue of video.

16.3 Movie

Subtitle Language → Select subtitle language.

Subtitle Setting → Select size, position, font, color of subtitle. Please refer 10.10.

Resume → Select resume screen pop-up method.

Instant Skip Interval → Select instant skip interval. Instant skip will occur when pressing *<UP>* or *<DOWN>* key at movie playback.

Sort Type → Select sorting type of movie.

Order Type → Select ordering type of movie browser.

Movie Scraper → Select movie scraping data base.

Resume

16.4 Music

Instant Skip Interval → Select instant skip interval. Instant skip will occur when pressing *<UP>* or *<DOWN>* key at movie playback.

Sort Type → Select sorting type of music.

Order Type → Select ordering type of music browser.

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16.5 Photo

Transition Effect → Select transition effects of slideshow.

Slideshow Interval → Select transition interval of slideshow.

Slideshow Mode → Select showing order of slideshow.

Sort Type → Select sorting type of photos.

Order Type → Select ordering type of photos.

Transition Effect

16.6 Network

Refer to section 8.6.

16.7 Cover-View

The cover-view style can be configured for each browser.

17. Connecting Network Server or NAS

This device provides powerful network browsing and connection capability from Rev 1.12 firmware. This includes multiple mountings of network drives for both SAMBA and NFS. The high performance NFS server software for PC, the **TizzNFS** will be also provided thru TizzBird WEB-site

17.1 Network connection using NFS

The NFS (Network File System) is a simple but powerful networking file system originally created by Sun Microsystems™. The NFS enables high performance file sharing between network devices, so it's most suitable for multimedia file playback via network.

The following section explains how to connect the shared PC folders using NFS server application or NAS (Network Attached Storage) which runs NFS server.

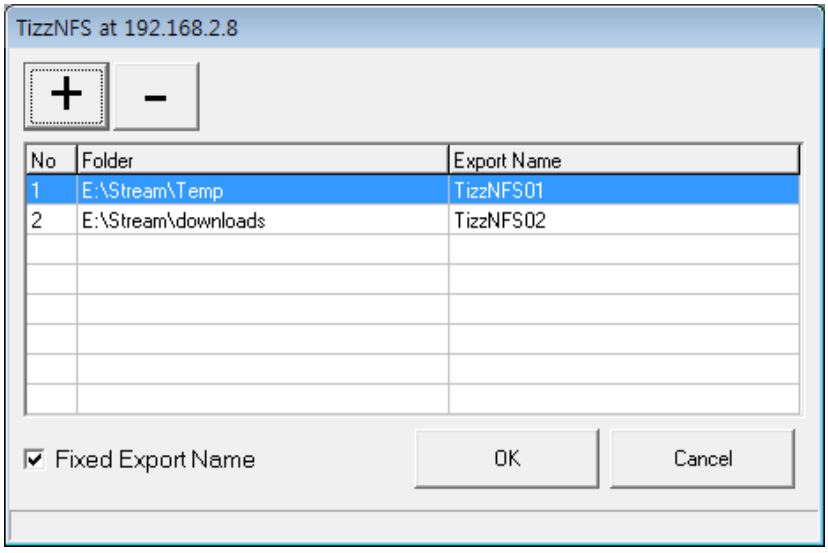
17.1.1 Downloading TizzNFS Server

Please download the "**TizzNFS**" server at Internet at the PC. Please visit our WEB-site (http://www.tizzbird.com) to download the TizzNFS program. Please install it after downloading it. The TizzNFS has following features.

- Runs on Windows™ XP/ Vista/ 7 (both 32 bit and 64bit)
- Simple and intuitive user interface.
- Enables sharing multiple folders thru EXPORT function.
- Reliable and high performance operation
- Simple or complex EXPORT name can be selectable.
- Supports NFS2 and NFS3 protocol completely.

17.1.2 Executing TizzNFS Server & Configuration

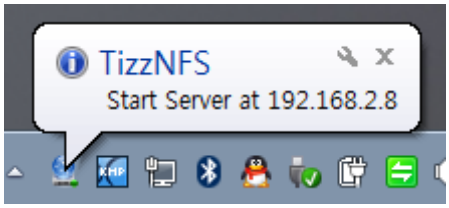
Execute the TizzNFS. The TizzNFS icon will appear on Task Bar. Click the icon and select "Settings" menu item.



Please press button to share the folder. The folder selecting dialog box will appear so the wanted folder can be selected.

Please repeat this procedure to select all other desirable folders to share. Please press button to unselect the folder, after clicking the row of unwanted folder at the dialog box.

The balloon help will pop-up when pressing OK button like below picture.



The TizzNFS will automatically run whenever log-on the PC, so shared folders will be maintained.

17.1.3 Downloading other NFS Server

Please download the "freeNFS" or "Allegro" NFS server at Internet at the PC. The "freeNFS" and "Allegro" NFS server was confirmed by TizzBird.

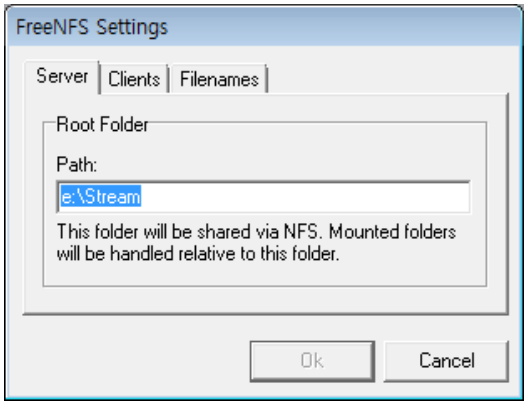
The "freeNFS" software can be downloadable at following URL:

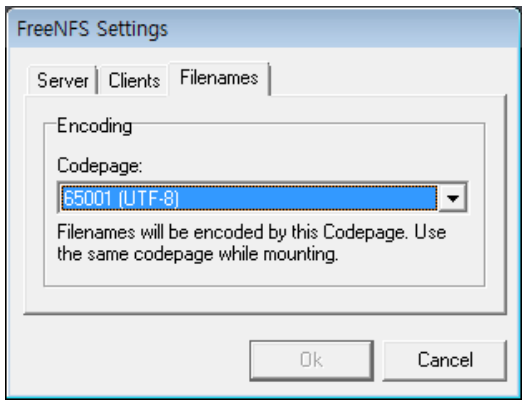
http://sourceforge.net/projects/freenfs/files/FreeNFS.exe/download

FreeNFS can be executed without specific installation.

17.1.4 Executing freeNFS Server & Configuration

Execute the freeNFS. The freeNFS icon will appear on Task Bar. Right mouse click the icon and select "Settings" menu item.





Please enter shared folder name at "Path" of "Server" Tab like above picture.

Please make sure that selecting "65001 (UTF-8)" at the "Codepage" of "Filennames" Tab.

17.1.5 Connecting NFS Server at Device

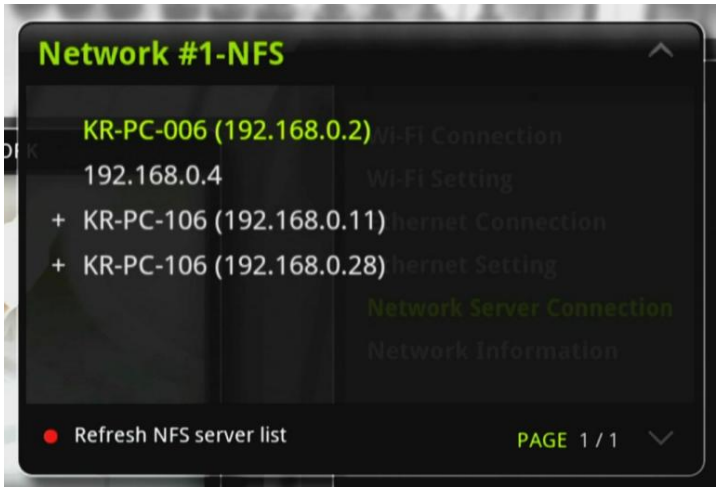
Select <Settings Browser → Network → Network Server Connection". This will bring the following dialog box.

Network Server Connection
Network #1 [NFS, Connected]
Network #2 [Connecting]
Network #3 [Connecting]
Network #4 [Disconnected]
PAGE 1 / 1

Up to 4 network servers can be connected at this version, and the number of connectable server will be increased at next version.

Please select one of the network drive number then press OK. This will bring the following dialog box.

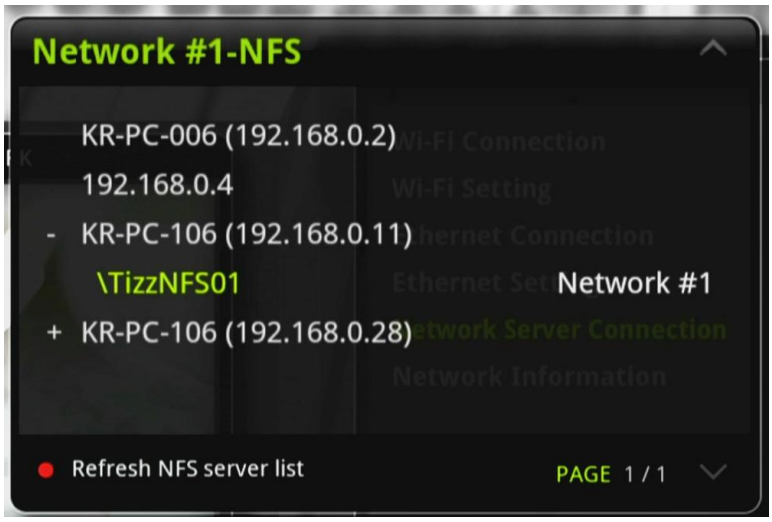
Please choose NFS. This will start the SERVER BROWSING dialog box and start browsing of available NFS server at the local network.



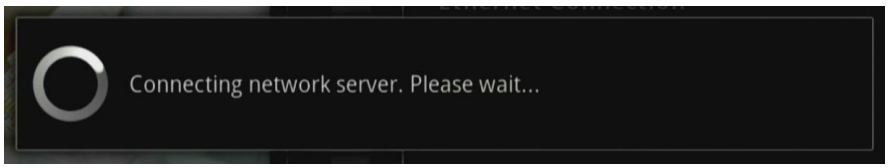
The available NFS servers will appear with names or IP addresses. The "+" sign on the left side of server name means it has exported folders. There can be no "+" sign server which is not exporting the EXPORT NAMES.

If PC runs Windows OS, the PC name can also appear like above picture. If the wanted server list is not appeared, please try RED button on remote to refresh the NFS server list.

Please select one of the server then press OK, the exported folders will appear like below picture. Please select one of those then press OK to connect.



The following dialog will appear shortly and connection will be made.



Caution:
Please use RealTEK RTL8188 Wi-Fi module for NFS thru Wi-Fi. The Ralink RT3070 Wi-Fi driver has some problem with NFS connection. The NFS + Ethernet configuration also does not have problem.

17.2 Network Connection using Samba

The following section explains how to connect the shared PC folders or NAS (Network Attached Storage) which runs Samba Server.

17.2.1 Activating PC Share

- Click right mouse button on the folder which will be shared. Select "Property" then "Sharing" TAB on the dialog box.

- Select "Share this folder" button on the dialog box
- The shared folder can be notified at file explorer, since the shared icon will appear on the left side of folder icon.

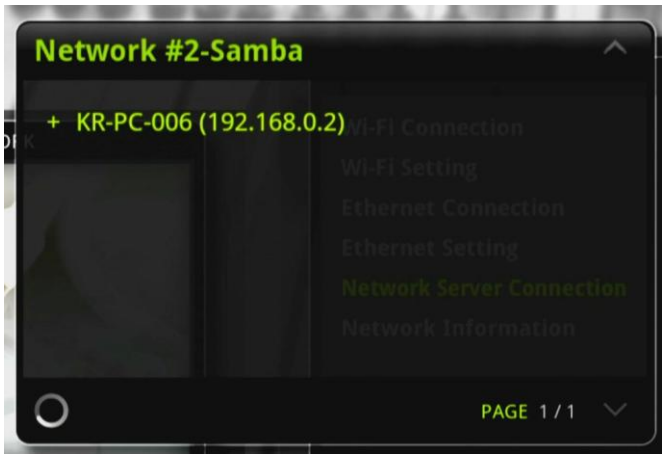
17.2.2 Connecting Samba Server at Device

Select <Settings Browser → Network → Network Server Connection >

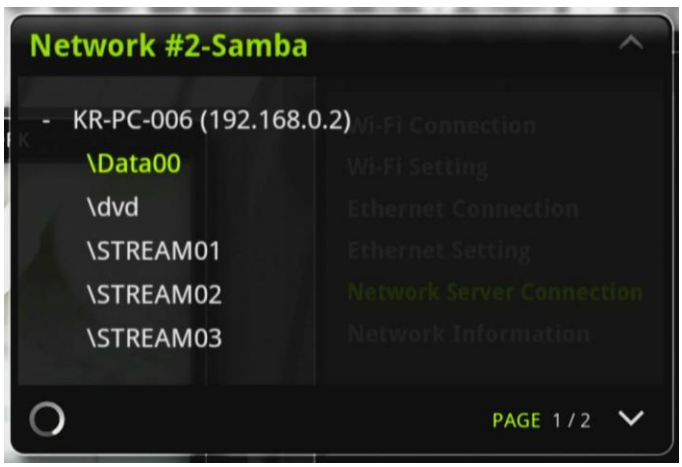
Network Server Connection
Network #1 [NFS, Connected]
Network #2 [Connecting]
Network #3 [Connecting]
Network #4 [Disconnected]
PAGE 1 / 1

Select "Samba" at dialog box.

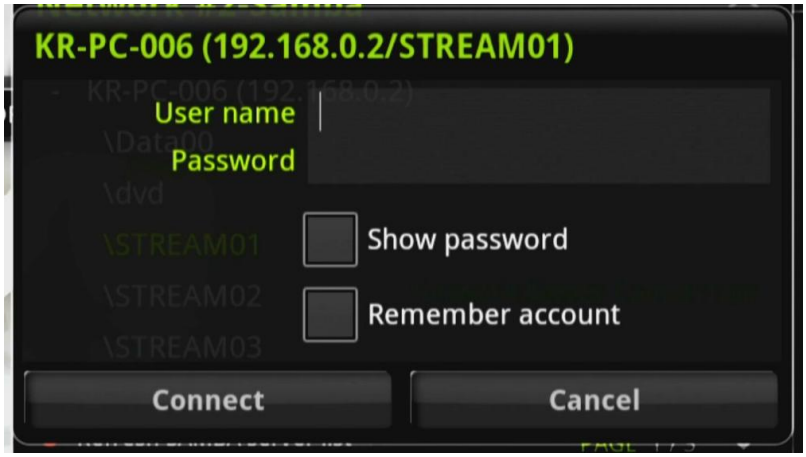
This will bring the SAMBA BROWSING dialog box like below. If the wanted SAMBA SERVER name is not appeared, please press RED button on remote.



The SAMBA server list will appear according to the PC-names or IP address. The "+" sign means it has several shared folders. Press OK button to unfold the server folder list, then select one of the folder to connect.



If the selected folder requires ACCESS RIGHT to connect it, the following dialog box will pop-up to enter the log-in account information.



Input the "User name" and "Password" using virtual keyboard. Please check "Remember account" checkbox to by-pass this log-in procedure at next connection.

The connection will be made after pressing "Connect" button.

17.3 Accessing Network Drive at File/ Media Browser

The shared folder connected thru can be accessible at <Movie/ Music/ Photo/ File Browser >. The below picture shows the selecting the NETWORK DRIVE at <File Browser>. Press <RED color> button on remote at File Browser to select the network drive. Select the network icon like following picture.

The shared folder will appeared and the files and folders can be browsed or playback.

18. Firmware Upgrade

18.1 Online Upgrade (O.T.A – Over The Air Upgrade)

TizzBird will connect the firmware update server periodically (once a week) and pop-up upgrade prompt window automatically, if new firmware is available. If TizzBird is connected to the network, the upgrade can be performed as following.

1) Prompt the firmware if new version is available.
2) Select <SETTING BROWSER> → <SYTSTEM> → <FIRMWARE UPDATE>
3) Setting browser will can the new firmware available on network and pop-up the window.
4) Press <OK> to start upgrade.
5) This O.T.A function is only available Rev 1.0.8 or later. If firmware is lower than this version, download the newest firmware from the WEB and update it manually. Please refer to 18.2 section.

18.2 Local Upgrade

Separately downloaded firmware (thru PC) can be upgraded like below. The upgrade will not take more than 1 minute.

18.2.1 Upgrade at Settings Screen

Copy or move the latest firmware to the root folder of USB flash or HDD drive.

- Connect the drive to USB port of the unit.
- Select <SETTING BROWSER> → <SYSTEM> → <FIRMWARE UPDATE>.
- SETTINGS BROWSER will scan the new firmware automatically and pop-up the window.
- Press *<OK>* button to start upgrade.

18.2.2 Upgrade at File Browser

Copy or move the latest firmware to the root folder of USB flash or HDD drive.

- Connect the drive to USB port of the unit.
- Select <FILLE BROWSER> at HOME SCREEN. .
- Browse the firmware file and press *<OK>* to start upgrade.